Kimberly Cunningham

From:	AirRR
Sent:	Thursday, September 11, 2025 12:50 PM
To:	OCC-NSR; R6AirPermitsTX@epa.gov; ANDYSNELGROVE@YAHOO.COM; TAYLOR@AMERICANCREMATORY.COM
Cc:	R12APDMail; Nguyen.Ly@houstontx.gov; Jorge.Gonzalez2@houstontx.gov; Air_Permits@pcs.hctx.net; latrice.babin@pcs.hctx.net
Subject:	INITIAL, Rr Houston Memorials, LLC, Project: 397695, Permit(s): 181363,
Attachments:	RR Houston Memorials Public Notice.docx

Please see Public Notice attached.

Kimberly Cunningham

From: Andrew Snelgrove <andysnelgrove@yahoo.com>
Sent: Thursday, September 11, 2025 9:41 AM
To: Kimberly Cunningham
Cc: TAYLOR@AMERICANCREMATORY.COM
Subject: Re: RR Houston Memorial Draft 181363_397695
Attachments: RR Houston Memorials DRAFT.docx

Kimberly-

Please find the WORD document attached with only minor corrections in the last portion correcting capitalization on RR Houston Memorials, LLC. I've highlighted items changed - changed Rr to RR and Llc to LLC. Not sure if that's important, but just keeping it consistent. The Top line in Application has the entity spelled and capitalized correctly.

Directions and everything else looks correct.

Best,
Andy
949-244-7661

On Thursday, September 11, 2025 at 08:33:41 AM CDT, Kimberly Cunningham <kimberly.cunningham@tceq.texas.gov> wrote:

Mr. .Snelgrove,

Please send approval within **2 business days**.

The NORI is a legally approved document and only the items listed below are subject to approval/correction. Please review carefully and provide corrections including a revised application as needed:

- Street address or driving directions to the facility
- Hyperlink for the map to facility - please confirm the map shows the general vicinity location of the facility
- Contaminant's list
- Public viewing place (must be in the same county as the facility and may be required to have internet access)
- For renewal applications, check all previous permitting actions since initial issuance or last renewal to make sure they are listed in Example A
    - Incorporation / consolidation of registrations for PBRs and Standard Permits being included with this application
    - Emission factor changes
    - Qualified facility changes
- Public Notice Technical Contact information

- Big or small business status (Small businesses will not receive Example B)

Please do not publish until you receive an email containing an administratively complete letter and public notice package.

Your prompt assistance is appreciated.

Kimberly Cunningham

License & Permit Specialist

Air Permits Division, TCEQ

512-239-1114

Kimberly.Cunningham@tceq.texas.gov

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

September 11, 2025

MR ANDREW SNELGROVE
OWNER
RR HOUSTON MEMORIALS LLC
1026 VAULTED OAK ST
HOUSTON TX 77008-1294

Re: Declaration of Administrative Completeness
Animal Carcass Incinerator Registration for an Air Quality Standard Permit
Air Quality Registration Number: 181363
Animal Carcass Incinerator
Houston, Harris County
Customer Reference Number: CN606424661
Regulated Entity Number: RN112277207

Dear Mr. Snelgrove:

The Texas Commission on Environmental Quality (TCEQ) has declared the above-referenced application, received on September 3, 2025, administratively complete on September 11, 2025.

You are now required to publish notice of your proposed activity no later than the 30th day after the executive director received the application, which is October 3, 2025. To help you meet the regulatory requirements associated with this notice, we have included the following items:

- Notice for Newspaper Publication
- Instructions for Public Notice
- Affidavits of Publication
- Notification List

Please note that it is very important that you follow all directions in the enclosed instructions. If you do not, you may be required to republish the notice. Some common errors are the unauthorized changing of notice wording or font, omission of air contaminants, and inaccurate plant site location information represented in the application. Additional information can be found at www.tceq.texas.gov/permitting/air/bilingual/how1_2_pn.html or **if you have any questions, please contact us before you proceed with publication.**

The following items and time limitations are also described in the enclosed instructions. However, due to their importance we want to highlight them for you. **The processing of your application may be delayed if these time limitations are not met.**

1. Publish the enclosed notice no later than the 30th day after the date the executive director received the application, which is October 3, 2025 (see this letter's first paragraph for the application received date).

2. You may also be required to publish notice in an alternate language (refer to the enclosed *Instructions for Public Notice*). The Spanish notice templates are available at:

www.tceq.texas.gov/permitting/air/nav/air_publicnotice.html

3. Ensure a copy of your application is provided to the TCEQ Regional Office that has oversight for the county in which you intend to operate your plant. This copy must be in place at the TCEQ Regional Office for the entire public comment period and be accessible to the public for review and copying.

4. Mail or email proof of publication of the notices, which show publication date and newspaper name, to the TCEQ Office of the Chief Clerk and mail copies to those on the enclosed *Notification List* within **10 business days** after the notice is published.

5. Return the *Affidavit of Publication for Air Permitting* (enclosed) and, if applicable, *Alternative Language Affidavit of Publication for Air Permitting* (enclosed) and the ***Public Notice Verification (Form TCEQ-20546)*** to the Office of the Chief Clerk and copies to those on the enclosed *Notification List* within **10 business days** after the notice is published in the newspaper. **The public notice verification form is available at www.tceq.texas.gov/permitting/air/nav/air_publicnotice.html.**

If you do not comply with **all** requirements described in the instructions, the TCEQ cannot continue processing the application and may take other actions.

If you have any questions regarding publication requirements, please contact the Office of the Chief Clerk at (512) 239-3300. If you have any other questions, please contact Ms. Kimberly Cunningham at (512) 239-1114.

Sincerely,

Nancy Birdsong, Team Leader
Air Permits Initial Review Team
Air Permits Division
Texas Commission on Environmental Quality

Enclosure

cc: Senior Project Manager, Houston Department of Health and Human Services, Bureau of Pollution Control & Prevention, Houston
Director, Harris County, Pollution Control Services, Pasadena
Air Section Manager, Region 12 - Houston

Project Number: 397695

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

NOTICE OF APPLICATION FOR AN AIR QUALITY STANDARD PERMIT FOR AN ANIMAL CARCASS INCINERATOR

PROPOSED AIR QUALITY REGISTRATION NUMBER 181363

APPLICATION. RR Houston Memorials LLC, 1026 Vaulted Oak St, Houston, TX 77008-1294 has applied to the Texas Commission on Environmental Quality (TCEQ) for an Air Quality Standard Permit, Registration Number 181363, which would authorize construction of an animal carcass incinerator. The facility is proposed to be located at 330 T C Jester Blvd, Houston, Harris County, Texas 77007. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For exact location, refer to application. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.41765,29.7765&level=13. This application was submitted to the TCEQ on September 3, 2025. The primary function of this facility is to properly dispose of animal carcasses through incineration. The executive director has determined the application was administratively complete on September 11, 2025.

PUBLIC COMMENT. Public written comments about this application may be submitted at any time during the public comment period. The public comment period begins on the first date notice is published and extends to 30 days from the publication date. Public comments may be submitted either in writing to Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105, P.O. Box 13087, Austin, Texas 78711-3087, or electronically at www14.tceq.texas.gov/epic/eComment/. Please be aware that any contact information you provide, including your name, phone number, email address and physical address will become part of the agency's public record.

RESPONSE TO COMMENTS. A written response to all relevant comments will be prepared by the executive director after the comment period closes. The response, along with the executive director's decision on the application, will be mailed to everyone who submitted public comments and requested to be added to the mailing list. The response to comments will be posted in the permit file for viewing.

The executive director shall approve or deny the application not later than 30 days after the end of the public comment period, considering all comments received within the comment period, and base this decision on whether the application meets the requirements of the standard permit.

CENTRAL/REGIONAL OFFICE. The application will be available for viewing and copying at the TCEQ Central Office and the TCEQ Houston Regional Office, located at 5425 Polk Street, Suite H, Houston, Texas 77023-1452, during the hours of 8:00 a.m. to 5:00 p.m., Monday through Friday, beginning the first day of publication of this notice. The application, including any updates, is available electronically at the following webpage: https://www.tceq.texas.gov/permitting/air/airpermit-applications-notices.

INFORMATION. For more information about the permitting process, please call the TCEQ Public Education Program, Toll Free, at 1-800-687-4040 or visit their website at www.tceq.texas.gov/goto/pep. Si desea información en Español, puede llamar al 1-800-687-4040. You can also view our website for public participation opportunities at www.tceq.texas.gov/goto/participation**.**

Further information may also be obtained from RR Houston Memorials LLC, 1026 Vaulted Oak St, Houston, TX 77008-1294, or by calling Mr. Taylor Burwell, Quality & Operations Lead at (562) 755-7346.

Notice Issuance Date: September 11, 2025

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Instructions for Public Notice
For Air Quality Standard Permit for Animal Carcass Incinerators

Notice of Application

Your application has been declared administratively complete and now you must comply with the following instructions:

Please Review Notice

We have included in the notice all of the information which we believe is necessary. Please read it carefully and notify us immediately if it contains any errors or omissions. You are responsible for ensuring the accuracy of all information published. You may not change the text of the notice without prior approval from the TCEQ.

Newspaper Notice

- You must publish the enclosed Notice of Application no later than the 30th day after the date the executive director received the application, which is October 3, 2025 (see this letter's first paragraph for the application received date).

- You must publish the enclosed Notice of Application at your expense, in a newspaper of general circulation in the municipality in which the facility is proposed to be located or in the municipality nearest to the proposed location of the facility.

- You must publish this notice in one issue of any applicable newspaper.

- You will find an example notice enclosed in this package. This example must be published in the "public notice" section of the newspaper.

Alternate Language Notice

In certain circumstances, applicants for air permits must complete notice in alternate languages.

- Public notice rules require the applicant to determine whether a bilingual program is required at either the elementary or middle school nearest to the proposed facility location. Bilingual education programs are determined on a district-wide basis. When students who are required to attend either school are eligible to be enrolled in a bilingual education program, some alternative language notice is required (newspaper notice).

- Since the school district, and not the schools, must provide the bilingual education program, these programs do not have to be located at the above-mentioned schools to trigger the alternative language notice requirement. If there are students who would normally attend the nearest schools, but are eligible to be taught in a bilingual education program at a different location, alternative language notice is required.

- If triggered, publication of alternative language notices must be made in a newspaper or publication printed primarily in each language taught in the bilingual education program. This

notice is required if such a newspaper or publication exists in the municipality or the county where the facility is or will be located.

- The applicant must demonstrate a good faith effort to identify a newspaper or publication in the required language. If a general circulation newspaper or publication printed in such language cannot be found, publishing in that language is not required. Publication in an alternative language section or insertion within a large publication which is not printed primarily in that alternative language does not satisfy these requirements.

- It is suggested the applicant work with the local school district for the following:

  (a) Determine if a bilingual program is required in the district;
  (b) Determine which language is required by the bilingual program;
  (c) Locate the nearest elementary and middle schools; and
  (d) Determine if any students attending either school are eligible to be enrolled in a bilingual educational program.

Proof of Publication

- You must submit proof of publication that shows the notice, the date of publication, and the name of the newspaper to the Office of the Chief Clerk within **10 business days** after the date of publication. Acceptable proofs of publication are 1) copies of the published notice or 2) the newspaper clippings of the published notice. If you choose to submit copies of the published notice to the Office of the Chief Clerk, copies must be on standard-size 8½'' x 11'' paper and must show the actual size of the published notice (do not reduce the image when making copies). Published notices longer than 11'' must be copied onto multiple 8½'' x 11'' pages. Please note, submitting a copy of your published notice could result in faster processing of your application. It is recommended that you maintain newspaper clippings or tear sheets of the notice for your records.

- You must submit the **affidavits of publication** and the **Public Notice Verification Form (Form TCEQ-20546)** with the proof of publication described above to the Office of the Chief Clerk. **You must use the enclosed affidavit.** The affidavit must clearly identify the applicant's name and TCEQ Registration Number. **The public notice verification form is available at http://www.tceq.texas.gov/permitting/air/nav/air_publicnotice.html.**

- The **affidavits of publication and acceptable proof of publication of the published notices** should be emailed to PROOFS@tceq.texas.gov or mailed to:

  Texas Commission on Environmental Quality
  Office of the Chief Clerk, MC-105
  Attn: Notice Team
  P.O. Box 13087
  Austin, Texas 78711-3087

  Please ensure that the affidavits you send to the Chief Clerk have all blanks filled in correctly.

- **Photocopies of newspaper clippings, affidavits, and verification form must also** be sent to those listed on the enclosed *Notification List* within the deadlines specified above.

Failure to Publish and Submit Proof of Publication

You must meet all publication requirements. **If you fail to publish the notice or submit proof of publication,** *on time,* **the TCEQ may suspend further processing on your application or take other actions.**

Application at the Regional Office

- You must provide a copy of the administratively complete application to the appropriate regional office that has jurisdiction over the county in which the plant is to be located. The application must be available for review and copying by the public.

- The administratively complete application must be available beginning the first day of newspaper publication and remain available until the end of the public hearing, which is the length of the public comment period.

- If the application is submitted to the TCEQ with information marked as confidential, you are required to indicate which specific portions of the application are not being made available to the public. These portions of the application must be accompanied with the following statement: "Any request for portions of this application that are marked as confidential must be submitted in writing, pursuant to the Public Information Act, to Texas Commission on Environmental Quality, Public Information Coordinator, MC-197, P.O. Box 13087, Austin, Texas 78711-3087."

General Information

When contacting the Commission regarding this application, please refer to the Registration Number at the top of the Notice of Application.

If you wish to obtain an electronic copy, please contact the technical reviewer who assisted in the preparation of this public notice package. The electronic copy will consist of the example notice, the equivalent in Spanish (if applicable), and the instructions. The electronic version is available in Microsoft Word format only and can be requested once your application has been declared administratively complete.

If you have questions or need assistance regarding publication requirements, please contact the Office of the Chief Clerk at (512) 239-3300 or the technical reviewer listed in the cover letter.

TCEQ-Office of the Chief Clerk
MC-105 Attn: Notice Team
P.O. Box 13087
Austin, Texas 78711-3087

Applicant Name: RR Houston Memorials, LLC
Permit No.: 181363
Application Received Date: September 3, 2025

AFFIDAVIT OF PUBLICATION FOR AIR PERMITTING

STATE OF TEXAS §
COUNTY OF _____ §

BEFORE ME, the undersigned authority, on this day personally appeared

_____, who being by me duly sworn, deposes and says that (s)he is *(Name of Person Representing Newspaper)*

the _____ of the _____
(Title of Person Representing Newspaper) *(Name of the Newspaper)*

that said newspaper is generally circulated in _____, Texas;
(The municipality or nearest municipality to the location of the facility or the proposed facility)

that the enclosed notice was published in said newspaper on the following date(s):

_____

_____
(Newspaper Representative's Signature)

Subscribed and sworn to before me this the _____ day of _____, 20_____
to certify which witness my hand and seal of office.

_____
Notary Public in and for the State of Texas

[Affix Seal]

_____
Print or Type Name of Notary Public

_____
My Commission Expires

TCEQ-Office of the Chief Clerk
MC-105 Attn: Notice Team
P.O. Box 13087
Austin, Texas 78711-3087

Applicant Name: RR Houston Memorials, LLC
Permit No.: 181363
Application Received Date: September 3, 2025

ALTERNATIVE LANGUAGE AFFIDAVIT OF PUBLICATION FOR AIR PERMITTING

STATE OF TEXAS §
COUNTY OF _____ §

BEFORE ME, the undersigned authority, on this day personally appeared

_____, who being by me duly sworn, deposes and says that (s)he is (*Name of Person Representing Newspaper)*

the _____ of the _____;
(Title of Person Representing Newspaper) *(Name of the Newspaper)*

that said newspaper is generally circulated in _____, Texas;
*(The **municipality or county** in which the facility or proposed facility is located)*

that the enclosed notice was published in said newspaper on the following date(s):

_____

_____
(Newspaper Representative's Signature)

Subscribe and sworn to before me this the _____ day of _____, 20_____
to certify which witness my hand and seal of office.

_____
Notary Public in and for the State of Texas

[Affix Seal]

_____
Print or Type Name of Notary Public

_____
My Commission Expires

Notification List

It is the responsibility of the applicant to furnish the following offices with copies of the notices published, the *Affidavit of Publication for Air Permitting, the Alternative Language Affidavit of Publication for Air Permitting (if applicable)*, and a completed copy of the *Public Notice Verification Form (Form TCEQ-20546)*. Acceptable proof of publication and any affidavits and Form TCEQ-*20546* should be emailed to PROOFS@tceq.texas.gov or mailed to the Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105, P.O. Box 13087, Austin, Texas 78711-3087.

Electronic copies should be submitted via email to the U.S. Environmental Protection Agency (EPA), **Region 6** at R6AirPermitsTX@EPA.gov. Please contact Ms. Aimee Wilson (wilson.aimee@epa.gov) at (214) 665-7596 if you have any questions pertaining to electronic submittals to the EPA.

Email copies to Mr. Joshua Wheatley at Joshua.Wheatley@tceq.texas.gov

Hard copies should be sent to the following:

Texas Commission on Environmental Quality
Houston Regional Office
5425 Polk Street, Suite H
Houston, Texas 77023-1452

Senior Project Manager
Houston Department of Health and Human Services
Bureau of Pollution Control & Prevention
7411 Park Place Blvd
Houston, Texas 77087-4441

Director
Harris County
Pollution Control Services
101 South Richey Ste H
Pasadena, Texas 77506-

For TCEQ Use Only

Permit Application Routing and Summary Sheet
Air Permits

This sheet should accompany all notices to be processed by the office of the chief clerk on the left side of the file folder.

Name of applicant: ..... RR Houston Memorials, LLC	
Facility/ Site name: ..... Animal Carcass Incinerators	
TCEQ permit number: 181363	
Application received date: ..... September 3, 2025	
Customer reference number: CN606424661	
Regulated entity number: RN112277207	
County: ..... Harris	**Region:** 12
Local program 1: Houston	**Local program 2: Harris**
Permit type: Standard Permit Application	
Internal program routing	
Tech. team leader: Mr. Joshua Wheatley	**Phone no.** (512) 239-4343
APIRT team leader: Nancy Birdsong	**Date:** September 11, 2025
Administratively reviewed by: Kimberly Cunningham	**Phone no.** (512) 239-1114
Administratively complete date: September 11, 2025	
Public viewing location must have internet access: ☐ **Yes** ☒ **No**	
Is 2nd public notice required: ☐ **Yes** ☒ **No**	
*Other	

For TCEQ Use Only

Applicant and Contact Information

This sheet should accompany all notices to be processed by the office of the chief clerk on the right side of the file folder.

Applicant's main contact and address to be shown on permit:	
Name/Title: Andrew Snelgrove, Owner	
Company: RR Houston Memorials LLC	
Street/Road: 1026 Vaulted Oak St	
City/State/Zip: Houston, TX 77008-1294	
Telephone: (949) 244-7661	**Fax:**
Applicant's technical representative/ consultant:	
Name/Title: Taylor Burwell, Quality & Operations Lead	
Company: American Crematory Equipment Co	
Street/Road: 6601 Darin Way	
City/State/Zip: Cypress, CA 90630-5130	
Phone: (562) 755-7346	**Fax:**
Person responsible for publishing notice:	
Name/Title: Andrew Snelgrove, Owner	
Company: RR Houston Memorials LLC	
Street/Road: 1026 Vaulted Oak St	
City/State/Zip: Houston, TX 77008-1294	
Telephone: (949) 244-7661	**Fax:**

Kimberly Cunningham

From: Andrew Snelgrove <andysnelgrove@yahoo.com>
Sent: Wednesday, September 10, 2025 11:32 AM
To: TAYLOR@AMERICANCREMATORY.COM; Kimberly Cunningham
Subject: Re: additional info needed Permit 181363 Project 397695 RR Houston Memorials
Attachments: TCEQ-School District.pdf

Follow Up Flag: Follow up
Flag Status: Completed

Kimberly-

Please see the attached PDF with the IV: Public Notice information completed.

Technical Contact: Taylor Burwell
Telephone Number: 562-755-7346
Email Address: Taylor@americancrematory.com

Yes - School District is required to provide bilingual programs
Yes - Closest elementary school does provide bilingual programs
Language: Spanish

Best,
Andy
949-244-7661

On Wednesday, September 10, 2025 at 09:02:00 AM CDT, Kimberly Cunningham <kimberly.cunningham@tceq.texas.gov> wrote:

Mr. Snelgrove and Mr. Burwell,

I received your application for the above referenced facility, and it is currently under review. These item(s) must be completed and returned **within 2 business days**

before I can declare the application administratively complete:

- Bilingual Notice information completed.

IV. Public Notice *(if applicable)*
B. Technical Contact
Telephone Number:
Fax Number:
Email Address:
C. Bilingual Notice
Is a bilingual program required by the Texas Education Code in the School District? ☐ Yes ☐ No
Are the children who attend either the elementary school or the middle school closest to your faci be enrolled in a bilingual program provided by the district? ☐ Yes ☐ No
If "Yes," list which language(s) are required by the bilingual program below? Language(s):_____ Language(s):_____

Your prompt assistance is appreciated.

Kimberly Cunningham

License & Permit Specialist

Air Permits Division, TCEQ

512-239-1114

Kimberly.Cunningham@tceq.texas.gov

BEATTY ENVIRONMENTAL SERVICES, INC.

315 SE 20TH PL, CAPE CORAL, FL 33990
PHONE: (239) 246-3646
EMAIL: BEATTYENVIRONMENTAL12@GMAIL.COM

Compliance Section
Broward County
Pollution Prevention Division-Air Quality Division
1 North University Drive, Suite 203
Plantation, Florida 33324

June 17, 2024

Re: Resting Rainbow Pet Memorials and Cremations
Airs ID: 0112793

Dear Compliance Section,

On May 9, 2024, EPA Methods 1-5, 9 and 10 Testing for Particulate(PM), VisibleEmissions(VE) and Carbon Monoxide(CO) were conducted at Resting Rainbow Pet Memorials and Cremations located at 4340 NW 19th Avenue Suite D in Deerfield Beach Florida.

The following emission unit (EU) was tested:

EU-001 Animal Crematory

If you have any questions regarding this report please contact our offices directly as soon as possible.

Sincerely,

Zachary Beatty

Zachary Beatty
Beatty Environmental Services, Inc.

Electronic Copy to: Resting Rainbow Pet Memorials and Cremations

Source Test Report for Particulate & Visible Emissions

Report 24025-ST

Conducted:

May 9, 2024

Prepared For:
Resting Rainbow Pet Memorials and Cremations
FID# 0112793

By:

Beatty Environmental Services Inc. 315 SE 20th Place
Cape Coral, FL 33990
(239) 246-3646

Table of Contents

1.0 Introduction

Resting Rainbow Pet, Facility ID 0112793, located at 4340 NW 19th Avenue, Suite E in Deerfield, Florida operates a Animal Crematory. On May 9, 2024, testing was performed for Particulate Matter (PM), Visible Emissions (VE), and Carbon Monoxide (CO) on EU-001.

The tests were performed in order to comply with the Florida Air General Permit (AGP) and Broward County Department of Planning and Environmental Protection, Air Quality Division, Chapter 27 Article IV, Air Quality, Section 27-179(c)(2).

During the testing period, Joseph Castranova the Facilty CEO certified a log containing the emission control device and process data. This information is presented along with the temperature control chart for the afterburner in Attachment C of this report.

2.0 Certification of Test Results

Facility Tested	Resting Rainbow Pet Memorials and Cremations 4340 NW 19th Avenue Suite E Deerfield Beach, Florida 33064
Type Process	Animal Crematory
Abatement Device	Afterburner
Report	24025-ST
Date	May 9, 2024

Actual Particulate Matter Emissions (gr/dscf@7%O2) -	**0.0369**
Allowable Particulate Emissions (gr/dscf@7%O2) -	0.08
Actual Visible Emission (VE) (Highest six minute average %) -	0.00
Allowable Visible Emission (VE) (Highest six minute average %) -	5.00
Actual Carbon Monoxide Emission (CO) (ppm@7%O2) -	34.39
Allowable Carbon Monoxide Emission (CO) (ppm@7%O2) -	100

I hereby certify that to my knowledge, all information and data submitted in this report is true and correct.

Nicholas Decker

Nicholas Decker
Field Manager

3.0 Allowable Emission Determination

The allowable emissions were determined by permit specific conditions.

Substantiating data and calculations are presented in the Appendix D.

4.0 Cyclonic Flow Determination

EPA Method 1

"11.4.1 In most stationary sources, the direction of stack gas flow is essentially parallel to the stack walls. However, cyclonic flow may exist (1) after such devices as cyclones and inertial demisters following venturi scrubbers, or (2) in stacks having tangential inlets or other duct configurations which tend to induce swirling; in these instances, the presence or absence of cyclonic flow at the sampling location must be determined."

Due to the configuration of the system, cyclonic flow was considered to be non-existent at the sampling site.

CYCLONIC FLOW DETERMINATION

EPA Method 1, Section 11.4

FACILITY NAME: *Resting Rainbow Pet Memorials and Cremations*

REPORT NUMBER *24025-ST*

Facility ID *FID# 0112793*

AVERAGE FLOW ANGLE: 0.0

CYCLONIC FLOW: (Yes/No) No

(Note: Average flow angle must be less then 20 degrees)

Date: May 9, 2024

POINT NUMBER	FLOW ANGLE (DEG)	FLOW DIRECTION (PROBE ROTATION TOWARDS) (L, R)
1	0.0	
2	0.0	
3	0.0	
4	0.0	
5	0.0	
6	0.0	
7	0.0	
8	0.0	
9	0.0	
10	0.0	
11	0.0	
12	0.0	
1	0.0	
2	0.0	
3	0.0	
4	0.0	
5	0.0	
6	0.0	
7	0.0	
8	0.0	
9	0.0	
10	0.0	
11	0.0	
12	0.0	

Average = 0.0

IF DEG 0 NO Flow direction is needed.

5.0 Summary of Results
Resting Rainbow Pet Memorials and Cremations
FID# 0112793
24025-ST

	Run 1	Run 2	Run 3	Average
Date	5/9/2024	5/9/2024	5/9/2024	
Start Time	8:20	9:38	11:00	
Stop Time	9:22	10:40	12:02	
Process Rate (tons/hr.)	128	144	140	137
Particulate Emission Rate (gr./dscf @ 7% O_2)	0.0364	0.0649	0.0092	0.037
Allowable Particulate Emission Rate (gr./dscf @7% O_2)	0.080	0.080	0.080	0.080
Visible Emission Rate (%) (highest six minute average)				0.00
Allowable Visible Emission Rate (%)				5
Carbon Monoxide Emission Rate (ppm @7% O_2)	5.64	95.02	2.51	34.39
Allowable Carbon Monoxide Emission Rate (ppm @7% O_2)	100	100	100	100

6.0 Particulate Emission Results
Resting Rainbow Pet Memorials and Cremations
FID# 0112793
24025-ST

	Run 1	Run 2	Run 3
Area (square feet)	2.07	2.07	2.07
Stack Pressure (inches Hg)	29.99	29.99	29.99
Meter Pressure (inches Hg)	30.09	30.08	30.17
Sample Volume (Std. Cu. Ft.)	37.985	37.272	49.305
Water Vapor (Cubic Feet)	2.74	3.42	4.17
Sample Moisture (percent)	6.73	8.40	7.79
Saturation Moisture (percent)	100.00	100.00	100.00
Molecular Weight (lbs/lb Mole wet)	28.29	28.08	28.17
Velocity (fpm)	1105	1084	1623
Volumetric Flow Rate (acfm)	2291	2249	3367
Volumetric Flow Rate (scfm-dry)	988	909	1178
Concentration (gr/dscf)	0.0136	0.0265	0.0033
Concentration@7% O2 (gr/dscf)	0.0364	0.0649	0.0092
Mass Emission Rate (lbs./hr.)	0.11	0.21	0.03
Percent Isokinetic	97.37	103.81	106.02

7.0 Visible Emission Results

Resting Rainbow Pet Memorials and Cremations

FID# 0112793

24025-ST

Emission Point	Allowable Emission Rate (highest six minute average)	Emission Rate (highest six minute average)	Average Opacity
Exhaust Stack	5	0.00	0.00

8.0 Carbon Monoxide Emission Results
Resting Rainbow Pet Memorials and Cremations
FID# 0112793
24025-ST

	Run1	Run 2	Run 3	Average
Date	5/9/2024	5/9/2024	5/9/2024	
Start Time	8:20	9:38	11:00	
Stop Time	9:22	10:40	12:02	
Percent Oxygen	15.7258	15.2225	15.8379	
Carbon Monoxide (PPM)	2.10	38.81	0.91	
Carbon Monoxide Emissions (PPM @ 7% O_2)	5.64	95.02	2.51	34.39
Carbon Monoxide Allowable (PPM@ 7% O_2)	100	100	100	100

9.0. Overview of Field and Analytical Procedures

9.1. EPA Method 1 – Sample and Velocity Traverses for Stationary Sources Principle - To aid in the representative measurement of pollutant emissions and/or total volumetric flow rate from a stationary source, a measurement site where the effluent stream is flowing in a known direction is selected and the cross-section of the stack is divided into a number of equal areas. A traverse point is then located within each of these equal areas. See Sampling Point Determination.
Applicability - This method is applicable to flowing gas streams in ducts, stacks and flues. This method cannot be used when: 1) flow is cyclonic or swirling 2) a stack is smaller than about 12 inches in diameter, or 0.071 cross-sectional area or 3) the measurement site is less than two stack or duct diameters downstream or less than a half diameters upstream from a flow disturbance. The procedures in this method were utilized in its entirety according to the procedures outlined in 40 CFR Part 60, Appendix A.

9.2. EPA Method 2 – Determination of Stack Gas Velocity and Volumetric Flow Rate
Principle - Type S Pitot Tube – The average gas velocity in a stack is determined from the gas density and from measurement of the average velocity head with a Type S pitot tube.
Applicability - This method is applicable for measurement of the average velocity of a gas stream and for quantifying gas flow. This procedure is not applicable at measurement sites which fail to meet the criteria of Method l. This method cannot be used for direct measurement in cyclonic or swirling gas streams. The procedures in this method were utilized in its entirety according to the procedures outlined in 40 CFR Part 60, Appendix A.

9.3. EPA Method 3 – Gas Analysis for the EPA Determination of Dry Molecular Weight
Principle - A gas sample is extracted from a stack by one of the following methods (1) A multi-point grab sampling method using an Orsat analyzer to analyze the individual grab sample obtained at each point; (2) a method for measuring either CO2 or O2 and using stoichiometric calculations to determine dry molecular weight; and (3) assigning a value of 30.0 for dry molecular weight, in lieu of actual measurements, for processes burning natural gas, coal, or oil.
Applicability - This method is applicable for determining carbon dioxide and oxygen concentrations and dry molecular weight of a sample from a gas stream of a fossil fuel combustion process. The method may also be applicable to other processes where it has been determined that compounds other than CO2, O2, CO, and nitrogen are not present in concentrations sufficient to affect the results. The procedures in this method were utilized in its entirety according to the procedures outlined in 40 CFR Part 60, Appendix A.

9.4. EPA Method 4 - Determination of Moisture Content in Stack Gases Principle -
A gas sample is extracted at a constant rate from the source; moisture is removed from the sample stream and determined either volumetrically or gravimetrically.
Applicability - This method is applicable for determining the moisture content of stack gas. There are two procedures given to determine the moisture. The procedure for the reference method to determine the moisture content was used to calculate the emission data. The reference method was conducted simultaneously with the pollutant emission measurement run, pollutant emission rate, etc. for the run is based upon the results of the reference method or its equivalent. The procedures in this method were utilized in its entirety according to the procedures outlined in 40 CFR Part 60, Appendix A.

9.5 EPA Method 5 - Determination of Particulate Emissions from Stationary Sources
Principle - Particulate matter is withdrawn isokinetically from the source collected on a glass fiber filter maintained at a temperature in the range of 223-273 degrees F or such other temperature as specified by an applicable subpart of the standards or approved by the Administrator, US Environmental Protection Agency for a particular application. The particulate mass which includes any material that condenses at or above the filtration temperature is determined gravimetrically after removal of uncombined water.
Applicability - This method is applicable for the determination of particulate emissions from stationary sources. The procedures in this method were utilized in its entirety according to the procedures outlined in 40 CFR Part 60, Appendix A.

Diagram of EPA Method 5 Sampling Train

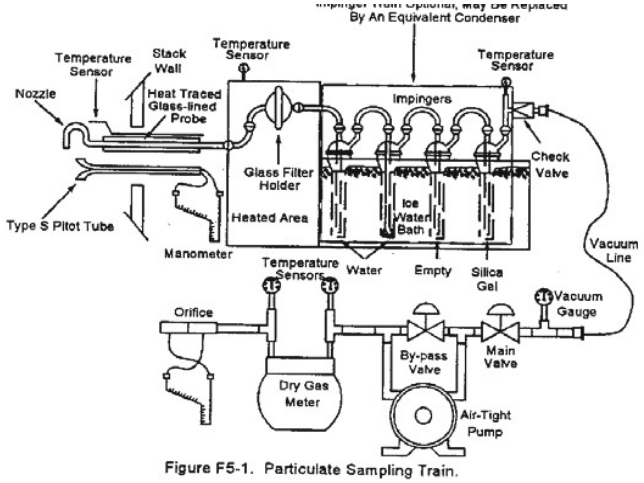


Figure F5-1. Particulate Sampling Train.

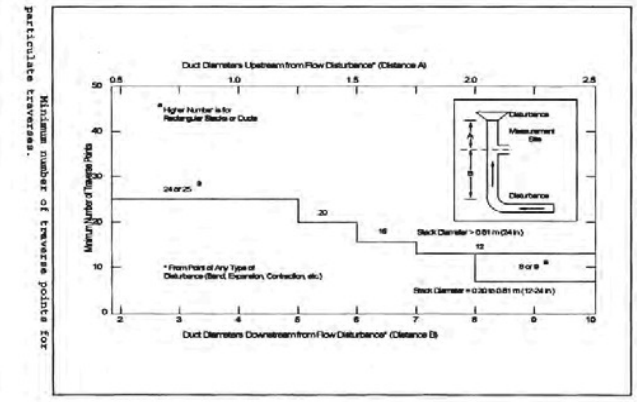
9.6 EPA Method 9 - Visual Determination of the Opacity of Emissions from Stationary Sources
Principle - The opacity of emissions from stationary sources is determine visually by a Qualified observer.
Applicability - This method is applicable for the determination of the opacity of emissions from stationary sources pursuant to 60.11(b) and for qualifying observers or visually determining the opacity of emissions.

9.7 EPA METHOD 10-DETERMINATION OF CARBON MONOXIDE EMISSIONS FROM STATIONARY SOURCES

Applicability. When is this method required The use of Method 10 may be required by specific New Source Performance Standards, State mplementation Plans, and permits where CO concentrations in stationary source emissions must be measured, either to determine compliance with an applicable emission standard or to conduct performance testin of a continuous emission monitorin system (CEMS). Other re ulations may also require the use of Method 10.

9.0 Sampling Point Determination Procedure

Minimum Number of Sampling Points
Per Traverse



Circular Stacks

The number of sampling points is selected according to the above diagram, with the number of points equaling the next higher multiple of four.

Rectangular Stacks

The number of sampling points is determined using the matrix below.

Number of Traverse Points	Subarea Layout Matrix
9	3x3
12	4x3
16	4x4
20	Sx4
2S	SxS
30	6xS
36	6x6
42	7x6
49	7x7

9.1 Sampling Point Determination
Resting Rainbow Pet Memorials and Cremations
FID# 0112793
24025-ST

Stack Configuration	Circular
Diameter (inches)	19.5
Distance A - Ports located upstream from disturbance (inches)	18
Distance A - Ports located upstream from disturbance (diameters)	0.9
Distance B - Ports located downstream from disturbance (inches)	162
Distance B - Ports located downstream from disturbance (diameters)	8.3
Number of Test Ports	2
Wall or Port length	7
Number of Sampling Points per Traverse	12
Number of Points Sampled	24

Photograph of Stack

Traverse Point Location	
Traverse Point No.	Inches to Sample Point offset
1	7.5
2	8.3
3	9.3
4	10.5
5	11.9
6	13.9
7	19.6
8	21.6
9	23.0
10	24.2
11	25.2
12	26.0

10.0 Summary of Field and Laboratory Data
Resting Rainbow Pet Memorials and Cremations
FID# 0112793
24025-ST

	Run 1	Run 2	Run 3
Date	5/9/2024	5/9/2024	5/9/2024
Start Time	8:20	9:38	11:00
Stop Time	9:22	10:40	12:02
CP	0.84	0.84	0.84
Y	1.0000	1.0000	1.0000
^Ha (inches H2O)	1.8500	1.8500	1.8500
Diameter of Nozzle (inches)	0.5003	0.5003	0.5003
Stack Diameter or Equivalent (inches)	19.50	19.50	19.50
Static Pressure (inches H2O)	-0.05	-0.05	-0.05
Barometric Pressure (inches Hg)	29.99	29.99	29.99
Test Time (minutes)	60	60	60
Meter Volume (cubic feet)	38.587	38.216	50.790
Square Root ^P (inches H2O)	0.221	0.211	0.293
Orifice Pressure ^H (inches H2O)	1.414	1.273	2.448
Average Meter Temperature (Deg. F)	79.3	84.1	88.2
Average Stack Temperature (Deg. F)	684.4	738.3	934.6
Particulate Sample Weight (grms)	0.0334	0.0641	0.0107
Water Collected (grms)	58.1	72.5	88.4
Percent CO2	2.5	2.5	2.5
Percent O2	15.7	15.2	15.8
Molecular Weight (lbs/lb Mole)	29.03	29.01	29.03
Nozzle Area (square feet)	0.00137	0.00137	0.00137

Attachment A - Field Data

Beatty Environmental Services, Inc.

Particulate Field Data

Plant	Resting Rainbow Pet Memorials and Cremations		Y_{qa}	1.0278	
Report	24025-ST-1		^Ha	1.8500	
Date	05/09/24		Dn	0.5003	
Operator	ND		Diameter (in.)	19.5	
Time	Start - 8:20	End - 9:22	Traverses X Points	2 X	12
K Factor	28.0		Static Pressure	-0.05	
Assumed Moisture %	5		Barometric Pressure (in. Hg)	29.99	
Dry Gas Meter No.	1		Test Time (min.)	60	
Nozzle ID No.	#20		Metered Volume	38.587	
Wet Bulb Temperature	NA		Avg. Sq Rt ^P	0.221	
Post Leak Check	.000cfm @ 12" Hg		Avg. ^H	1.414	
Cp Factor	0.84		Avg. Meter Temp.	79.3	
Y	1.0000		Avg. Stack Temp.	684.4	

Traverse Point Number	Sampling Time (min.)	DG METER (cu.ft.) 0.000	Velocity Head ΔP(in. H_2O)	Pressure Orifice Meter ΔH(in. H2O)	Meter Temperature (°F)	Pump Vacuum (in. Hg)	Impinger Temperature (°F)	Filter Temperature (°F)	Stack Temperature (°F)
1	2.5	1.78	0.05	1.34	73.5	0.9	66.7	241.5	708.2
2	2.5	3.60	0.05	1.40	74	1.0	66.6	253.4	716.1
3	2.5	5.37	0.05	1.43	74.7	1.0	64.4	252.7	712.8
4	2.5	6.97	0.05	1.37	75.4	0.8	64.4	252.1	713.6
5	2.5	8.56	0.05	1.40	76	0.8	64.4	249.1	715.2
6	2.5	10.19	0.05	1.37	76.6	0.9	64.4	252	715.4
7	2.5	11.92	0.05	1.37	77.1	1.0	64.5	250.3	710
8	2.5	13.62	0.05	1.34	77.7	1.0	64.3	252	698.2
9	2.5	15.31	0.06	1.54	78.2	1.1	64.4	250.2	690.7
10	2.5	16.92	0.04	1.15	78.6	1.0	64.3	251.4	640.3
11	2.5	18.27	0.03	0.84	78.9	0.8	64.4	250.6	446.6
12	2.5	19.62	0.03	0.90	79.2	0.8	64.7	251.1	481.5
1	2.5	21.46	0.05	1.29	79.6	1.2	64.1	250.5	710.1
2	2.5	23.13	0.04	1.20	80.2	1.3	64.3	252.5	728.3
3	2.5	24.84	0.05	1.43	80.7	1.4	64.5	252.1	735.7
4	2.5	26.56	0.06	1.76	81.1	1.6	64.4	249.2	750.6
5	2.5	28.26	0.14	3.89	81.5	1.6	64.2	254	925.6
6	2.5	29.93	0.08	2.24	82	1.6	64.2	250.2	833.3
7	2.5	31.59	0.05	1.26	82.4	1.7	64.1	250.1	736.3
8	2.5	33.07	0.03	0.90	82.8	1.5	64.1	252.5	601.3
9	2.5	34.47	0.07	1.93	82.9	1.4	64.1	252.3	691.3
10	2.5	35.85	0.03	0.87	83.1	1.4	64	251.3	599.6
11	2.5	37.23	0.03	0.87	83.2	1.4	64.1	250.5	570.2
12	2.5	38.587	0.03	0.84	83.2	1.4	63.8	251	595.4

Beatty Environmental Services, Inc.

Particulate Field Data

Plant	Resting Rainbow Pet Memorials and Cremations	Y_{qa}	0.9892
Report	24025-ST-2	^Ha	1.8500
Date	05/09/24	Dn	0.5003
Operator	ND	Diameter (in.)	19.5
Time	Start - 9:38 End - 10:40	Traverses X Points	2 X 12
K Factor	28.0	Static Pressure	-0.05
Assumed Moisture %	7	Barometric Pressure (in. Hg)	29.99
Dry Gas Meter No.	1	Test Time (min.)	60
Nozzle ID No.	#20	Metered Volume	38.216
Wet Bulb Temperature	NA	Avg. Sq Rt ^P	0.211
Post Leak Check	.000cfm @ 14" Hg	Avg. ^H	1.273
Cp Factor	0.84	Avg. Meter Temp.	84.1
Y	1.0000	Avg. Stack Temp.	738.3

Traverse Point Number	Sampling Time (min.)	DG METER (cu.ft.) 0.000	Velocity Head ΔP(in. H_2O)	Pressure Orifice Meter ΔH(in. H2O)	Meter Temperature (°F)	Pump Vacuum (in. Hg)	Impinger Temperature (°F)	Filter Temperature (°F)	Stack Temperature (°F)
1	2.5	1.57	0.05	1.29	81.8	2.1	65.4	239.1	732.9
2	2.5	3.17	0.07	2.02	81	2.3	62.7	256.5	807
3	2.5	4.88	0.04	1.09	81.4	2.5	61.5	254.7	729.7
4	2.5	6.57	0.04	1.09	81.9	2.5	62.2	252.2	722.8
5	2.5	8.19	0.04	1.18	82.3	2.4	63.2	251.1	726.4
6	2.5	9.80	0.04	1.23	82.6	2.4	63.7	252.7	721.5
7	2.5	11.47	0.05	1.48	83	2.6	64	250.9	774.6
8	2.5	13.22	0.05	1.34	83.3	2.8	64.2	250.3	695.9
9	2.5	14.96	0.04	1.09	83.6	2.8	64.5	253.1	604.4
10	2.5	16.60	0.03	0.90	84	3.0	65	252.5	508.3
11	2.5	18.04	0.01	0.39	84.1	3.4	65.6	250.4	542.6
12	2.5	19.39	0.02	0.53	84.1	3.6	65.3	250.4	658.4
1	2.5	20.68	0.05	1.34	84	3.6	65	249.7	757.8
2	2.5	21.97	0.05	1.48	84	3.7	64.6	249.2	801.9
3	2.5	23.24	0.06	1.74	84.1	3.7	64.5	253.8	819.9
4	2.5	24.50	0.05	1.48	84.3	3.7	64.7	253.7	801.5
5	2.5	26.27	0.06	1.57	84.6	5.7	64.7	249.2	806.9
6	2.5	28.10	0.05	1.46	85.1	5.9	65.6	248.3	808.8
7	2.5	29.90	0.05	1.43	85.6	5.6	65.7	252.5	797.8
8	2.5	31.71	0.05	1.40	86.1	5.6	65.6	251.6	802.1
9	2.5	33.48	0.04	1.18	86.5	5.3	66.2	249.1	783.7
10	2.5	35.19	0.04	1.23	86.8	5.1	66.6	253.6	767.4
11	2.5	36.90	0.04	1.20	87.1	5.1	66.8	253.9	768.9
12	2.5	38.216	0.05	1.40	87.3	5.1	66.9	254	779.1

Beatty Environmental Services, Inc.

Particulate Field Data

Plant	Resting Rainbow Pet Memorials and Cremations	Y_{qa}	1.0346
Report	24025-ST-3	^Ha	1.8500
Date	05/09/24	Dn	0.5003
Operator	ND	Diameter (in.)	19.5
Time	Start - 11:00 End - 12:02	Traverses X Points	2 X 12
K Factor	28.0	Static Pressure	-0.05
Assumed Moisture %	8	Barometric Pressure (in. Hg)	29.99
Dry Gas Meter No.	1	Test Time (min.)	60
Nozzle ID No.	#20	Metered Volume	50.79
Wet Bulb Temperature	NA	Avg. Sq Rt ^P	0.293
Post Leak Check	.000cfm @ 15" Hg	Avg. ^H	2.448
Cp Factor	0.84	Avg. Meter Temp.	88.2
Y	1.0000	Avg. Stack Temp.	934.6

Traverse Point Number	Sampling Time (min.)	DG METER (cu.ft.) 0.000	Velocity Head ΔP(in. H_2O)	Pressure Orifice Meter ΔH(in. H2O)	Meter Temperature (°F)	Pump Vacuum (in. Hg)	Impinger Temperature (°F)	Filter Temperature (°F)	Stack Temperature (°F)
1	2.5	2.00	0.06	1.60	84.4	3.5	66.9	241.1	794
2	2.5	3.72	0.06	1.62	84.9	2.8	64.6	255.8	839.2
3	2.5	5.43	0.06	1.57	85.5	2.8	65.1	255.5	830.8
4	2.5	7.14	0.06	1.54	85.9	2.8	66.4	251.6	839.7
5	2.5	8.85	0.05	1.48	86.1	2.8	65.2	250.8	832.8
6	2.5	10.54	0.06	1.71	86.3	2.9	65.8	253.4	840
7	2.5	12.21	0.06	1.68	86.5	2.9	65.2	251.3	840.1
8	2.5	13.89	0.09	2.60	86.7	2.9	65.5	256.1	884.2
9	2.5	15.55	0.10	2.88	86.9	2.9	64.6	246.8	975.7
10	2.5	17.86	0.10	2.83	87.3	4.6	64.5	254	982.7
11	2.5	20.25	0.10	2.80	88	4.8	63.8	251.2	985.3
12	2.5	22.51	0.10	2.80	88.5	4.5	63.6	253.2	988.9
1	2.5	24.48	0.10	2.91	88.4	3.9	61.8	252.3	949.7
2	2.5	26.89	0.12	3.28	89	5.0	62.1	251.6	992.9
3	2.5	29.36	0.12	3.28	89.3	5.3	62.4	251.7	1003.1
4	2.5	31.90	0.12	3.25	89.7	5.6	62.8	253.8	998.1
5	2.5	34.44	0.10	2.91	90	5.7	63	251.6	989.5
6	2.5	36.93	0.10	2.91	90.2	5.5	63	251.8	992.3
7	2.5	39.35	0.10	2.83	90.4	5.2	63	251.9	985.4
8	2.5	41.77	0.10	2.80	90.6	5.2	62.9	252.4	978.1
9	2.5	44.17	0.09	2.38	90.7	5.3	62.8	253.5	980
10	2.5	46.56	0.09	2.38	90.7	5.3	62.7	252.9	979
11	2.5	48.70	0.08	2.35	90.8	4.4	62.6	252	971.3
12	2.5	50.790	0.084	2.35	90.7	4.2	62.3	250.7	977.2

Beatty Environmental Services, Inc.

315 SE 20th Pl
Cape Coral, Florida 33990
(239) 246-3646
beattyenvironmental12@gmail.com

VISIBLE EMISSION OBSERVATION FORM

Method Used (Circle One): (Method 9) 203A 203B Report___

Company Name: Resting Rainbow Pet Memorials and Cremations

FID: 0112793

Street Address: 4340 NW 19th Avenue Suite E

City: Deerfield Beach Zip Code: 33064

Phone No.:

Process: Animal Cremation Unit #: Operating Mode: 150lbs/hr

Control Equipment: Afterburners Operating Mode: 1600°F

Describe Emission Point: American A-250P-SXS (150 lb/hr)

Ht of Emis.Point: ~25' Ht Rel to Observer: ~3'

Distance to Emis. Pt.: ~35' Direction to Emis. Pt (Degrees): 293°

Vertical Angle to Obs.: 2° Direction to Obs. Pt. (Degrees): 293°

Distance and Direction to Obs. Pt from Emission Pt: N/A

Describe Emissions: None

Emission Color: None Water Droplet Plume Attached Detached___ None ✓

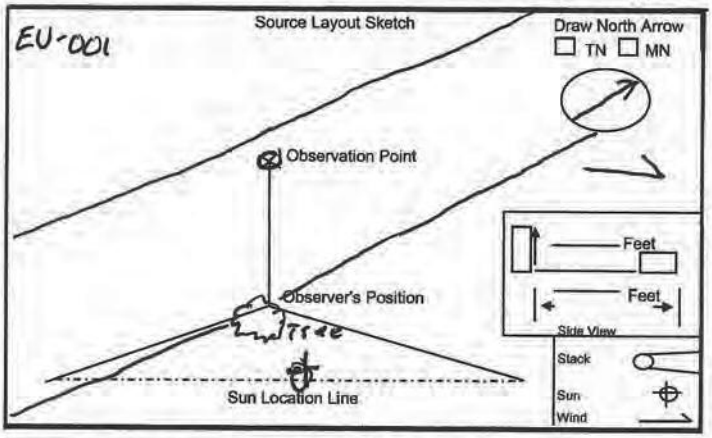
Describe Plume Background: Hill

Background Color: Green Sky Conditions: Broken

Wind Speed: 3-5mph Wind Direction: SW

Ambient Temp.: 80° Wet Bulb Temp.: 74° % RH: 80%

Source Layout Sketch



Latitude: 26°16'59" Longitude: 80°8'55" Declination: -

Comments: observation made from roof

START STOP

Observation Date: 5/9/24 Start Time: 0820 Stop Time: 0920

Min \ Sec	0	15	30	45	Min \ Sec	0	15	30	45
1	0	0	0	0	31	0	0	0	0
2	0	0	0	0	32	0	0	0	0
3	0	0	0	0	33	0	0	0	0
4	0	0	0	0	34	0	0	0	0
5	0	0	0	0	35	0	0	0	0
6	0	0	0	0	36	0	0	0	0
7	0	0	0	0	37	0	0	0	0
8	0	0	0	0	38	0	0	0	0
9	0	0	0	0	39	0	0	0	0
10	0	0	0	0	40	0	0	0	0
11	0	0	0	0	41	0	0	0	0
12	0	0	0	0	42	0	0	0	0
13	0	0	0	0	43	0	0	0	0
14	0	0	0	0	44	0	0	0	0
15	0	0	0	0	45	0	0	0	0
16	0	0	0	0	46	0	0	0	0
17	0	0	0	0	47	0	0	0	0
18	0	0	0	0	48	0	0	0	0
19	0	0	0	0	49	0	0	0	0
20	0	0	0	0	50	0	0	0	0
21	0	0	0	0	51	0	0	0	0
22	0	0	0	0	52	0	0	0	0
23	0	0	0	0	53	0	0	0	0
24	0	0	0	0	54	0	0	0	0
25	0	0	0	0	55	0	0	0	0
26	0	0	0	0	56	0	0	0	0
27	0	0	0	0	57	0	0	0	0
28	0	0	0	0	58	0	0	0	0
29	0	0	0	0	59	0	0	0	0
30	0	0	0	0	60	0	0	0	0

Number of Readings Above 0 % were 0 — Average Opacity for Highest 6 Min Period 0%.

Range of opacity Readings Min 0% Max 0%.

Observers Name (Print): D R Beatty

Observers Signature: D R Beatty Date: 5/9/24

Organization: Beatty Environmental Services, Inc.

Certified By: Whitlow-Green Date: 4/15/24

WHITLOW GREEN EPA SMOKE SCHOOL, LLC

WWW.SMOKESCHOOL.NET

CERTIFIES THAT

DAN BEATTY-BEATTY ENVIRONMENTAL SERVICES, INC.

Has passed the certification test required by EPA Method 9
40 CFR 60 Appendix A and is qualified as a visible emissions evaluator.
Certification Date: **April 15, 2024** **Location**: **North Fort Myers, FL**

Jerry Green & Gary Green
OWNERS

FL41524-DB-BEATTYENVIRONMENTALSERVICESINC.-01

WHITLOW GREEN EPA SMOKE SCHOOL, LLC

WWW.SMOKESCHOOL.NET

CERTIFIES THAT

DAN BEATTY-BEATTY ENVIRONMENTAL SERVICES, INC.

Has attended the visible emissions evaluator course classroom lecture.
Certification Date: **April 15, 2024** **Location**: **North Fort Myers, FL**

Jerry Green & Gary Green
OWNERS

FL41524-DB-BEATTYENVIRONMENTALSERVICESINC.-01

Facility Name:	**Resting Rainbow Pet**
Unit:	**(Model #American A-250P-SXS(150lb/hr))**
Facility ID:	**0112793**
Date:	**5/9/2024**
Test No.:	**24025-ST**
Run No.	**1**
Start:	**8:20**
Stop:	**9:20**

UNCORRECTED RAW DATA

Date/Time	O2 %	CO PPM
5/9/2024 8:20	14.80	0.00
5/9/2024 8:21	14.84	0.00
5/9/2024 8:22	14.77	0.00
5/9/2024 8:23	14.83	0.00
5/9/2024 8:24	14.85	0.00
5/9/2024 8:25	15.12	0.00
5/9/2024 8:26	17.18	1.75
5/9/2024 8:27	14.91	0.25
5/9/2024 8:28	14.91	0.00
5/9/2024 8:29	16.71	0.25
5/9/2024 8:30	14.94	0.25
5/9/2024 8:31	15.79	0.00
5/9/2024 8:32	15.77	0.50
5/9/2024 8:33	15.21	0.00
5/9/2024 8:34	16.38	2.00
5/9/2024 8:35	14.90	0.25
5/9/2024 8:36	16.08	3.00
5/9/2024 8:37	16.97	3.00
5/9/2024 8:38	18.51	13.25
5/9/2024 8:39	16.73	17.50
5/9/2024 8:40	18.33	22.75
5/9/2024 8:41	13.25	38.00
5/9/2024 8:42	14.74	1.25
5/9/2024 8:43	15.64	5.25
5/9/2024 8:44	14.09	0.25
5/9/2024 8:45	15.98	1.00
5/9/2024 8:46	14.11	1.00
5/9/2024 8:47	16.26	0.75
5/9/2024 8:48	14.13	1.25
5/9/2024 8:49	16.63	0.50
5/9/2024 8:50	14.38	1.25
5/9/2024 8:51	16.58	0.25
5/9/2024 8:52	14.50	1.50
5/9/2024 8:53	16.08	0.00
5/9/2024 8:54	14.86	1.25
5/9/2024 8:55	16.09	0.00
5/9/2024 8:56	14.77	1.00
5/9/2024 8:57	16.44	0.00
5/9/2024 8:58	14.45	1.00
5/9/2024 8:59	16.73	0.25
5/9/2024 9:00	15.84	1.50
5/9/2024 9:01	16.32	0.25
5/9/2024 9:02	16.35	0.50
5/9/2024 9:03	15.55	0.25
5/9/2024 9:04	14.22	0.00
5/9/2024 9:05	14.52	0.00
5/9/2024 9:06	16.49	1.00
5/9/2024 9:07	14.64	0.00
5/9/2024 9:08	16.47	1.00
5/9/2024 9:09	14.99	0.00
5/9/2024 9:10	16.34	1.25
5/9/2024 9:11	15.45	0.00
5/9/2024 9:12	16.19	0.00
5/9/2024 9:13	14.34	0.00
5/9/2024 9:14	16.63	0.00
5/9/2024 9:15	14.91	1.00
5/9/2024 9:16	16.93	0.25
5/9/2024 9:17	14.45	0.75
5/9/2024 9:18	17.18	0.50
5/9/2024 9:19	14.38	0.50
5/9/2024 9:20	17.16	0.75

Uncorrected Average	15.599	2.131148
Bias Corrected Average	15.7258	2.10
Corrected to 7% O2		5.638606

Facility Name:	**Resting Rainbow Pet**
Unit:	**(Model #American A-250P-SXS(150lb/hr))**
Facility ID:	**0112793**
Date:	**5/9/2024**
Test No.:	**24025-ST**
Run No.	**2**
Start:	**9:38**
Stop:	**10:38**

UNCORRECTED RAW DATA

Date/Time	O2 %	CO PPM
5/9/2024 9:38	16.57	0.00
5/9/2024 9:39	15.41	0.75
5/9/2024 9:40	17.16	0.00
5/9/2024 9:41	15.10	0.75
5/9/2024 9:42	15.68	0.00
5/9/2024 9:43	16.47	0.00
5/9/2024 9:44	14.95	0.00
5/9/2024 9:45	17.18	0.00
5/9/2024 9:46	14.19	0.00
5/9/2024 9:47	17.49	0.00
5/9/2024 9:48	14.20	0.00
5/9/2024 9:49	17.37	0.00
5/9/2024 9:50	15.19	0.00
5/9/2024 9:51	16.50	0.00
5/9/2024 9:52	15.63	0.00
5/9/2024 9:53	14.11	0.25
5/9/2024 9:54	15.45	0.00
5/9/2024 9:55	12.56	0.00
5/9/2024 9:56	15.59	0.00
5/9/2024 9:57	13.74	0.75
5/9/2024 9:58	13.55	15.00
5/9/2024 9:59	15.32	51.25
5/9/2024 10:00	11.74	341.00
5/9/2024 10:01	12.92	275.25
5/9/2024 10:02	11.23	218.75
5/9/2024 10:03	10.98	301.50
5/9/2024 10:04	11.48	206.75
5/9/2024 10:05	11.91	264.25
5/9/2024 10:06	11.44	222.75
5/9/2024 10:07	12.97	175.75
5/9/2024 10:08	15.02	42.75
5/9/2024 10:09	16.22	17.50
5/9/2024 10:10	16.21	26.00
5/9/2024 10:11	15.99	34.25
5/9/2024 10:12	16.40	26.50
5/9/2024 10:13	16.71	18.25
5/9/2024 10:14	17.14	14.50
5/9/2024 10:15	17.41	12.00
5/9/2024 10:16	13.91	34.50
5/9/2024 10:17	17.34	43.50
5/9/2024 10:18	14.38	10.25
5/9/2024 10:19	16.33	5.50
5/9/2024 10:20	16.20	2.75
5/9/2024 10:21	15.78	5.25
5/9/2024 10:22	16.47	2.75
5/9/2024 10:23	14.28	3.25
5/9/2024 10:24	17.17	1.50
5/9/2024 10:25	13.91	2.00
5/9/2024 10:26	17.23	2.00
5/9/2024 10:27	14.48	1.75
5/9/2024 10:28	16.10	2.50
5/9/2024 10:29	15.36	1.00
5/9/2024 10:30	15.20	2.25
5/9/2024 10:31	16.49	0.75
5/9/2024 10:32	14.20	2.00
5/9/2024 10:33	16.97	0.50
5/9/2024 10:34	13.61	1.00
5/9/2024 10:35	16.90	0.50
5/9/2024 10:36	13.71	0.50
5/9/2024 10:37	16.09	0.50
5/9/2024 10:38	14.53	0.25

Uncorrected Average	15.1114	39.23361
Bias Corrected Average	15.2225	38.81
Corrected to 7% O2		95.02148

Facility Name:	**Resting Rainbow Pet**
Unit:	**(Model #American A-250P-SXS(150lb/hr))**
Facility ID:	**0112793**
Date:	**5/9/2024**
Test No.:	**24025-ST**
Run No.	**3**
Start:	**11:00**
Stop:	**12:00**

UNCORRECTED RAW DATA

Date/Time	O2 %	CO PPM
5/9/2024 11:00	16.42	0.25
5/9/2024 11:01	14.38	0.25
5/9/2024 11:02	15.29	0.25
5/9/2024 11:03	15.45	0.00
5/9/2024 11:04	14.29	0.00
5/9/2024 11:05	16.66	0.25
5/9/2024 11:06	13.67	0.25
5/9/2024 11:07	16.42	0.50
5/9/2024 11:08	14.73	0.50
5/9/2024 11:09	15.16	0.50
5/9/2024 11:10	15.98	0.25
5/9/2024 11:11	14.07	0.25
5/9/2024 11:12	16.83	0.50
5/9/2024 11:13	14.11	0.00
5/9/2024 11:14	16.17	0.00
5/9/2024 11:15	15.05	0.00
5/9/2024 11:16	15.16	0.00
5/9/2024 11:17	16.32	0.00
5/9/2024 11:18	14.63	0.00
5/9/2024 11:19	18.03	11.25
5/9/2024 11:20	16.47	3.25
5/9/2024 11:21	16.02	1.00
5/9/2024 11:22	15.82	1.00
5/9/2024 11:23	15.09	4.50
5/9/2024 11:24	14.96	0.50
5/9/2024 11:25	15.90	2.75
5/9/2024 11:26	14.98	2.75
5/9/2024 11:27	14.98	0.25
5/9/2024 11:28	15.90	2.75
5/9/2024 11:29	15.00	2.00
5/9/2024 11:30	15.01	0.25
5/9/2024 11:31	15.93	3.25
5/9/2024 11:32	14.98	2.25
5/9/2024 11:33	14.98	0.00
5/9/2024 11:34	15.91	1.50
5/9/2024 11:35	15.04	2.75
5/9/2024 11:36	15.06	0.00
5/9/2024 11:37	15.79	0.50
5/9/2024 11:38	15.19	4.25
5/9/2024 11:39	15.03	0.00
5/9/2024 11:40	15.77	0.00
5/9/2024 11:41	16.28	0.00
5/9/2024 11:42	16.21	0.00
5/9/2024 11:43	16.30	0.25
5/9/2024 11:44	16.23	0.50
5/9/2024 11:45	16.34	0.25
5/9/2024 11:46	16.26	0.25
5/9/2024 11:47	16.27	0.00
5/9/2024 11:48	16.28	0.50
5/9/2024 11:49	16.90	3.00
5/9/2024 11:50	16.30	0.25
5/9/2024 11:51	16.30	0.00
5/9/2024 11:52	16.30	0.00
5/9/2024 11:53	16.31	0.00
5/9/2024 11:54	16.32	0.00
5/9/2024 11:55	16.32	0.00
5/9/2024 11:56	16.34	0.00
5/9/2024 11:57	16.95	3.25
5/9/2024 11:58	16.35	0.25
5/9/2024 11:59	16.34	0.00
5/9/2024 12:00	16.33	0.00

Uncorrected Average	15.7353	0.967213
Bias Corrected Average	15.8379	0.91
Corrected to 7% O2		2.510586

Attachment B - Laboratory Data

Particulate Laboratory Data
Resting Rainbow Pet Memorials and Cremations
FID# 0112793
24025-ST

Run 1

Filter Number	3995		
	Final Weight	0.3753	grams
	Tare Weight	0.3449	grams
	Difference	0.0304	grams
Beaker Number	1B		
	Final Weight	3.0407	grams
	Tare Weight	3.0374	grams
	Difference	0.0033	grams
Filter Blank Number	4068		
	Final Weight	0.3370	grams
	Tare Weight	0.3370	grams
	Difference	0.0000	grams
Acetone Wash Down			
	Volume of Rinse	210	mL
	Residue in Rinse (calculated)	1.89897E-06	mg/mg
	Total Residue in Rinse	0.00031425	grams
Total Particulate Weight		**0.0334**	**grams**

Water Collected

	Final Impinger Water	249	mL
	Initial Impinger Water	200	mL
	Final Silica Weight	209.2	grams
	Silica Tare Weight	200.0	grams
Total Water Collected		**58.1**	**grams**

Analyst *Nicholas Decker*

Particulate Laboratory Data
Resting Rainbow Pet Memorials and Cremations
FID# 0112793
24025-ST

Run 2

Filter Number	3996		
	Final Weight	0.4013	grams
	Tare Weight	0.3424	grams
	Difference	0.0589	grams
Beaker Number	2B		
	Final Weight	3.0423	grams
	Tare Weight	3.0368	grams
	Difference	0.0055	grams
Filter Blank Number	4068		
	Final Weight	0.3370	grams
	Tare Weight	0.3370	grams
	Difference	0.0000	grams
Acetone Wash Down			
	Volume of Rinse	212	mL
	Residue in Rinse (calculated)	1.89897E-06	mg/mg
	Total Residue in Rinse	0.0003186	grams
Total Particulate Weight		**0.0641**	**grams**

Water Collected

	Final Impinger Water	261	mL
	Initial Impinger Water	200	mL
	Final Silica Weight	211.6	grams
	Silica Tare Weight	200.0	grams
Total Water Collected		**72.5**	**grams**

Analyst *Nicholas Decker*

Particulate Laboratory Data
Resting Rainbow Pet Memorials and Cremations
FID# 0112793
24025-ST

Run 3

Filter Number	3997		
	Final Weight	0.3541	grams
	Tare Weight	0.3468	grams
	Difference	0.0073	grams
Beaker Number	3B		
	Final Weight	3.0433	grams
	Tare Weight	3.0396	grams
	Difference	0.0037	grams
Filter Blank Number	4068		
	Final Weight	0.3370	grams
	Tare Weight	0.3370	grams
	Difference	0.0000	grams
Acetone Wash Down			
	Volume of Rinse	216	mL
	Residue in Rinse (calculated)	1.89897E-06	mg/mg
	Total Residue in Rinse	0.00032355	grams
Total Particulate Weight		**0.0107**	**grams**

Water Collected

	Final Impinger Water	278	mL
	Initial Impinger Water	200	mL
	Final Silica Weight	210.5	grams
	Silica Tare Weight	200.0	grams
Total Water Collected		**88.4**	**grams**

Analyst **Nicholas Decker**

Acetone Blank Calculations

METHOD 5—DETERMINATION OF PARTICULATE MATTER EMISSIONS FROM STATIONARY SOURCES

7.2 Sample Recovery. Acetone, reagent grade, ≤0.001 percent residue, in glass bottles, is required. Acetone from metal containers generally has a high residue blank and should not be used. Sometimes, suppliers transfer acetone to glass bottles from metal containers; thus, acetone blanks shall be run prior to field use and only acetone with low blank values (≤0.001 percent) shall be used. In no case shall a blank value of greater than 0.001 percent of the weight of acetone used be subtracted from the sample weight.

Constant Variables Used

Density of Acetone:	789.9 mg/ml
Quantity of Blank:	200ml

Beaker No.	4D	
Initial Weight of Beaker	3.0604	
Final Weight of Beaker	3.0607	
Residue from Blank	**0.0003 g**	
Conversion G>MG	0.3 mg	

Beaker Final Weight -Beaker Initial Weight
0.0003 g
Residue From Blank Multiplied by 1,000
0.3 mg

Quantity of Blank	200 ml	
Density of Acetone	789.9 mg/ml	
Total mg of Acetone	**157980 mg of acetone**	

Quantity Of Blank x Density of Acetone
157980 mg

Total mg of Acetone	157980 mg
Acetone mg Residue	0.3 mg
Residue	**0.0000018990** mg

Acetone mg Residue/Total mg of Acetone
0.00018990%
Residue MUST be <.001%
PASS

Attachment C - Process Data

Beatty Environmental Services, Inc.

Emission Control Device and Process Data Form

Facility Name: Resting Rainbow Pet Memorials and Cremations

Installation: American A-250P-SXS (150lb/hr)

Type of Installation: Human Crematory

Type of Fuel Used: Natural Gas

Type of Pollution Control System: Afterburner

General Condition of Control Equipment: Normal

Type of Material Processed: Human Remains

Run No.	1	2	3
Start Time	08:20	09:38	11:00
Stop Time	09:22	10:40	12:02
Fuel	Natural Gas	Natural Gas	Natural Gas
Date	5-9-2024	5-9-2024	5-9-2024
Process Rate	128 lbs	144 lbs	140 lbs

Signature: _____ Title: CEO

Printed Name: Joseph Castranova III Report No. 24025-ST

*By signing above facility designee agrees that all information on this form is true and correct to the best of his/her knowledge.

Resting Rainbow Pet Memorials and Cremations
Secondary chamber Temperature log 24025-ST
Run 1

5/9/2024	8:20:11	Device Manager	1620
5/9/2024	8:21:11	Device Manager	1630
5/9/2024	8:22:11	Device Manager	1638
5/9/2024	8:23:11	Device Manager	1645
5/9/2024	8:24:11	Device Manager	1651
5/9/2024	8:25:11	Device Manager	1657
5/9/2024	8:26:11	Device Manager	1648
5/9/2024	8:27:11	Device Manager	1617
5/9/2024	8:28:11	Device Manager	1635
5/9/2024	8:29:11	Device Manager	1652
5/9/2024	8:30:11	Device Manager	1628
5/9/2024	8:31:11	Device Manager	1643
5/9/2024	8:32:11	Device Manager	1633
5/9/2024	8:33:11	Device Manager	1637
5/9/2024	8:34:11	Device Manager	1645
5/9/2024	8:35:11	Device Manager	1638
5/9/2024	8:36:11	Device Manager	1646
5/9/2024	8:37:11	Device Manager	1656
5/9/2024	8:38:11	Device Manager	1658
5/9/2024	8:39:11	Device Manager	1648
5/9/2024	8:40:11	Device Manager	1656
5/9/2024	8:41:11	Device Manager	1646
5/9/2024	8:42:11	Device Manager	1643
5/9/2024	8:43:11	Device Manager	1642
5/9/2024	8:44:11	Device Manager	1636
5/9/2024	8:45:11	Device Manager	1651
5/9/2024	8:46:11	Device Manager	1631
5/9/2024	8:47:11	Device Manager	1651
5/9/2024	8:48:11	Device Manager	1630
5/9/2024	8:49:11	Device Manager	1653
5/9/2024	8:50:11	Device Manager	1629
5/9/2024	8:51:11	Device Manager	1650
5/9/2024	8:52:11	Device Manager	1629
5/9/2024	8:53:11	Device Manager	1647
5/9/2024	8:54:11	Device Manager	1631
5/9/2024	8:55:11	Device Manager	1647
5/9/2024	8:56:11	Device Manager	1632
5/9/2024	8:57:11	Device Manager	1649
5/9/2024	8:58:11	Device Manager	1631
5/9/2024	8:59:11	Device Manager	1653
5/9/2024	9:00:11	Device Manager	1630
5/9/2024	9:01:11	Device Manager	1608
5/9/2024	9:02:11	Device Manager	1587
5/9/2024	9:03:11	Device Manager	1571
5/9/2024	9:04:11	Device Manager	1590
5/9/2024	9:05:11	Device Manager	1634
5/9/2024	9:06:11	Device Manager	1648
5/9/2024	9:07:11	Device Manager	1639
5/9/2024	9:08:11	Device Manager	1647
5/9/2024	9:09:11	Device Manager	1640
5/9/2024	9:10:11	Device Manager	1644
5/9/2024	9:11:11	Device Manager	1641
5/9/2024	9:12:11	Device Manager	1627
5/9/2024	9:13:11	Device Manager	1613
5/9/2024	9:14:11	Device Manager	1651
5/9/2024	9:15:11	Device Manager	1631
5/9/2024	9:16:11	Device Manager	1653
5/9/2024	9:17:11	Device Manager	1632
5/9/2024	9:18:11	Device Manager	1658
5/9/2024	9:19:11	Device Manager	1633
5/9/2024	9:20:11	Device Manager	1656
5/9/2024	9:21:11	Device Manager	1947
5/9/2024	9:22:11	Device Manager	1952

Resting Rainbow Pet Memorials and Cremations
Secondary chamber Temperature log 24025-ST
Run 2

5/9/2024	9:38:11	Device Manager	1649
5/9/2024	9:39:11	Device Manager	1632
5/9/2024	9:40:11	Device Manager	1655
5/9/2024	9:41:11	Device Manager	1631
5/9/2024	9:42:11	Device Manager	1644
5/9/2024	9:43:11	Device Manager	1651
5/9/2024	9:44:11	Device Manager	1635
5/9/2024	9:45:11	Device Manager	1657
5/9/2024	9:46:11	Device Manager	1634
5/9/2024	9:47:11	Device Manager	1659
5/9/2024	9:48:11	Device Manager	1636
5/9/2024	9:49:11	Device Manager	1655
5/9/2024	9:50:11	Device Manager	1641
5/9/2024	9:51:11	Device Manager	1646
5/9/2024	9:52:11	Device Manager	1648
5/9/2024	9:53:11	Device Manager	1636
5/9/2024	9:54:11	Device Manager	1659
5/9/2024	9:55:11	Device Manager	1634
5/9/2024	9:56:11	Device Manager	1660
5/9/2024	9:57:11	Device Manager	1640
5/9/2024	9:58:11	Device Manager	1633
5/9/2024	9:59:11	Device Manager	1662
5/9/2024	10:00:11	Device Manager	1637
5/9/2024	10:01:11	Device Manager	1666
5/9/2024	10:02:11	Device Manager	1677
5/9/2024	10:03:11	Device Manager	1702
5/9/2024	10:04:11	Device Manager	1722
5/9/2024	10:05:11	Device Manager	1735
5/9/2024	10:06:11	Device Manager	1740
5/9/2024	10:07:11	Device Manager	1741
5/9/2024	10:08:11	Device Manager	1739
5/9/2024	10:09:11	Device Manager	1729
5/9/2024	10:10:11	Device Manager	1714
5/9/2024	10:11:11	Device Manager	1702
5/9/2024	10:12:11	Device Manager	1697
5/9/2024	10:13:11	Device Manager	1692
5/9/2024	10:14:11	Device Manager	1687
5/9/2024	10:15:11	Device Manager	1665
5/9/2024	10:16:11	Device Manager	1642
5/9/2024	10:17:11	Device Manager	1657
5/9/2024	10:18:11	Device Manager	1646
5/9/2024	10:19:11	Device Manager	1651
5/9/2024	10:20:11	Device Manager	1654
5/9/2024	10:21:11	Device Manager	1646
5/9/2024	10:22:11	Device Manager	1659
5/9/2024	10:23:11	Device Manager	1638
5/9/2024	10:24:11	Device Manager	1662
5/9/2024	10:25:11	Device Manager	1639
5/9/2024	10:26:11	Device Manager	1658
5/9/2024	10:27:11	Device Manager	1646
5/9/2024	10:28:11	Device Manager	1651
5/9/2024	10:29:11	Device Manager	1655
5/9/2024	10:30:11	Device Manager	1645
5/9/2024	10:31:11	Device Manager	1662
5/9/2024	10:32:11	Device Manager	1639
5/9/2024	10:33:11	Device Manager	1662
5/9/2024	10:34:11	Device Manager	1641
5/9/2024	10:35:11	Device Manager	1660
5/9/2024	10:36:11	Device Manager	1645
5/9/2024	10:37:11	Device Manager	1655
5/9/2024	10:38:11	Device Manager	1652
5/9/2024	10:39:11	Device Manager	1647
5/9/2024	10:40:11	Device Manager	1659

Resting Rainbow Pet Memorials and Cremations
Secondary chamber Temperature log 24025-ST
Run 3

5/9/2024	11:00:11	Device Manager	1658
5/9/2024	11:01:11	Device Manager	1647
5/9/2024	11:02:11	Device Manager	1646
5/9/2024	11:03:11	Device Manager	1659
5/9/2024	11:04:11	Device Manager	1637
5/9/2024	11:05:11	Device Manager	1663
5/9/2024	11:06:11	Device Manager	1638
5/9/2024	11:07:11	Device Manager	1658
5/9/2024	11:08:11	Device Manager	1649
5/9/2024	11:09:11	Device Manager	1643
5/9/2024	11:10:11	Device Manager	1663
5/9/2024	11:11:11	Device Manager	1637
5/9/2024	11:12:11	Device Manager	1661
5/9/2024	11:13:11	Device Manager	1642
5/9/2024	11:14:11	Device Manager	1654
5/9/2024	11:15:11	Device Manager	1652
5/9/2024	11:16:11	Device Manager	1643
5/9/2024	11:17:11	Device Manager	1665
5/9/2024	11:18:11	Device Manager	1637
5/9/2024	11:19:11	Device Manager	1646
5/9/2024	11:20:11	Device Manager	1621
5/9/2024	11:21:11	Device Manager	1632
5/9/2024	11:22:11	Device Manager	1647
5/9/2024	11:23:11	Device Manager	1628
5/9/2024	11:24:11	Device Manager	1638
5/9/2024	11:25:11	Device Manager	1650
5/9/2024	11:26:11	Device Manager	1627
5/9/2024	11:27:11	Device Manager	1640
5/9/2024	11:28:11	Device Manager	1649
5/9/2024	11:29:11	Device Manager	1629
5/9/2024	11:30:11	Device Manager	1641
5/9/2024	11:31:11	Device Manager	1650
5/9/2024	11:32:11	Device Manager	1627
5/9/2024	11:33:11	Device Manager	1639
5/9/2024	11:34:11	Device Manager	1648
5/9/2024	11:35:11	Device Manager	1626
5/9/2024	11:36:11	Device Manager	1637
5/9/2024	11:37:11	Device Manager	1647
5/9/2024	11:38:11	Device Manager	1628
5/9/2024	11:39:11	Device Manager	1635
5/9/2024	11:40:11	Device Manager	1645
5/9/2024	11:41:11	Device Manager	1648
5/9/2024	11:42:11	Device Manager	1646
5/9/2024	11:43:11	Device Manager	1645
5/9/2024	11:44:11	Device Manager	1646
5/9/2024	11:45:11	Device Manager	1647
5/9/2024	11:46:11	Device Manager	1646
5/9/2024	11:47:11	Device Manager	1646
5/9/2024	11:48:11	Device Manager	1647
5/9/2024	11:49:11	Device Manager	1638
5/9/2024	11:50:11	Device Manager	1633
5/9/2024	11:51:11	Device Manager	1638
5/9/2024	11:52:11	Device Manager	1642
5/9/2024	11:53:11	Device Manager	1644
5/9/2024	11:54:11	Device Manager	1645
5/9/2024	11:55:11	Device Manager	1647
5/9/2024	11:56:11	Device Manager	1647
5/9/2024	11:57:11	Device Manager	1636
5/9/2024	11:58:11	Device Manager	1632
5/9/2024	11:59:11	Device Manager	1637
5/9/2024	12:00:11	Device Manager	1641
5/9/2024	12:01:11	Device Manager	1639
5/9/2024	12:02:11	Device Manager	1648

Attachment D - Calculations

CALCULATIONS FOR RUN 1
Resting Rainbow Pet Memorials and Cremations
FID# 0112793
24025-ST

STACK AREA

3.1416 x (Diameter / 24)^2

3.1416 X (19.50 /24)^2

2.07 SQ.FT.

STACK PRESSURE

BAROMETRIC PRESSURE + (STATIC PRESSURE/ 13.6)

29.99 + (-0.05 /13.6)

29.99 IN.HG

METER PRESSURE

BAROMETRIC PRESSURE + (ORIFICE PRESURE/13.6)

29.99 + (1.41 / 13.6)

30.09 IN.Hg

SAMPLE VOLUME

17.64 X (Y) X METER VOLUME X METER PRESSURE / (METER TEMP. + 460)

17.64 X 1.0000 X 38.587 X 30.09 / (79.3 + 460)

37.985 STD.CU.FT.

WATER VAPOR VOLUME

0.04715 X WATER COLLECTED

0.04715 X 58.1

2.74 STD.CU.FT.

SAMPLE MOISTURE

100 X WATER VAPOR VOLUME / (WATER VAPOR VOLUME + SAMPLE VOLUME)

100 X 2.74 / (2.74 + 37.985)

6.73 %

SATURATION MOISTURE

100 X (VAPOR PRESSURE @ STACK TEMP. / STACK PRESSURE)

100 X (6209.2885 / 29.99)

100.00 %

STACK MOISTURE FRACTION

(THE LESSER OF SAMPLE MOISTURE OR SATURATION MOISTURE) / 100

0.067

DRY MOLECULAR WEIGHT OF STACK GAS

(0.28 X (100-%N2)) + (0.44 X %CO2) + (0.32 X %O2)

(0.28 X (100 - (2.50 + 15.73))) + (0.44 X 2.50) + (0.32 X 15.73)

29.03

CALCULATIONS FOR RUN 1
Resting Rainbow Pet Memorials and Cremations
FID# 0112793
24025-ST

MOLECULAR WEIGHT OF STACK GAS

MOLECULAR WEIGHT X (1 - MOISTURE) + (18 X MOISTURE)

29.03 X (1 - 0.067) + (18 X 0.067)

28.29

STACK VELOCITY

85.49 X CP X 60 X SQ.(^P) X SQ.(STACK TEMP + 460)/SQ.(STACK PRESSURE X MOLECULAR WT.)

85.49 X 0.840 X 60 X 0.221 X SQ.(684.4 + 460) / SQR(29.99 X 28.287)

1105 FPM

VOLUMETRIC FLOW RATE (ACFM)

STACK AREA X STACK VELOCITY

2.07 X 1105

2291 ACFM

VOLUMETRIC FLOW RATE (SCFM) DRY

17.64 X (ACFM) X STACK PRESSURE X (1-MOISTURE) / (STACK TEMP. + 460)

17.64 X 2291 X 29.99 X (1 - 0.067) / (684.4 + 460)

988 SCFM (DRY)

CONCENTRATION (gr/dscf)

Total Particulate Weight X 15.43 / Sample Volume

0.0334 X 15.43 / 37.98

0.0136

CONCENTRATION@7% O2 (gr/dscf)

Concentration X 13.9 / (20.9 - %o2)

0.0136 X 13.9 / (20.9 - 15.726)

0.0364

MASS EMISSION RATE (LBS./HR.)

CONCENTRATION X (SCFM- DRY) X 60 / 7000

0.0136 X 988 X 60 / 7000

0.11 LBS/HR

PERCENT ISOKINETIC

.0945 X (STACK TEMP. + 460) X SAMPLE VOLUME X 60

. (STACK PRES. X VELOCITY X NOZZLE AREA X TEST TIME X (1-MOISTURE))

0.0945 X (684.43 + 460) X 37.98 X 6O

29.99 X 1105 X 0.00137 X 60.00 X (1- 0.067)

97.37 %

EPA Method Specific Calculations

Example Calculations From Run 3

8.0 EPA Method 10 CO Calculations

Analyzer Calibration Error:

ACE= Cdir - Cv / CS x 100 (Eq. 7E-1)

Example Calculation Run 3 (Low)

ACE =	(	0.006	-	0	)	/	380	x	100
ACE =	0.00								

Example Calculation Run 3 (Mid)

ACE =	(	186.2	-	185	)	/	380	x	100
ACE =	0.32								

Example Calculation Run 3 (High)

ACE =	(	380	-	380	)	/	380	x	100
ACE =	0.00								

Analyzer Calibration Error
For a low-, medium-, and high-calibration gas, the difference between the manufacturer certified value and the analyzer response in direct calibration mode, no more than 2.0% of calibration span

System Bias:

SB = Cs - Cdir/ CS X 100 (Eq. 7E-3)

Example Calculation Run 3 (Low (initial))

SB =	(	0.034	-	0.006	)	/	380	x	100
SB =	0.01								

Example Calculation Run 3 (Low (final))

SB =	(	0.051	-	0.006	)	/	380	x	100
SB =	0.01								

Example Calculation Run 3 (Mid (initial))

SB =	(	187	-	186.2	)	/	380	x	100
SB =	0.21								

Example Calculation Run 3 (Mid (Final))

SB =	(	187.3	-	186.2	)	/	380	x	100
SB =	0.29								

13.2 System Bias
This specification is applicable to both the system bias and 2-point system calibration error tests described in section 8.2.5 and 8.5. The pre- and post-run system bias (or system calibration error) must be within ±5.0 percent of the calibration span for the low-level and upscale calibration gases. Alternatively, the results are acceptable if | Cs–Cdir | is ≤0.5 ppmv or if | Cs– Cv | is ≤0.5 ppmv (as applicable).

Drift Assessment:

D = (SBFinal - SB i) / CS x 100

Example Calculation Run 3 (Low)

D =	0.051	-	0.034	/	380	x	100
D =	0.00						

Example Calculation Run 3 (Mid)

D =	187.3	-	187	/	380	x	100
D =	0.08						

13.3 Drift.
For each run, the low-level and upscale drift must be less than or equal to 3.0 percent of the calibration span. The drift is also acceptable if the pre- and post-run bias (or the pre- and post-run system calibration error) responses do not differ by more than 0.5 ppmv at each gas concentration (i.e. | Cs post-run– Cs pre-run | ≤0.5

Attachment E - Calibration Data

APEX INSTRUMENTS

Revised: 2021/06/22

Certificate of Calibration

Method 5 Pre-Test Console Pulse Calibration - Liters (L)

UUT Meter Console Information

Model #:	XD-502
Serial #:	A2404228
DGM Model #:	SK25EX-100B
DGM Serial #:	20246308
Initial Y_{qc}:	1.0000

Calibration Conditions

Bar. Pressure (in Hg):	30.11
Ambient Temp (°F):	69.2
Relative Humidity (%):	63
Altitude (ft):	414.0
Corr. Bar. Pressure (in Hg):	29.70

Factors/Conversions

Std. Temp. (K):	293.15
Std. Press. (mm Hg):	760
K_1 (K/mm Hg):	0.3857

Reference Equipment

WTM Model:	W-NKoDa-5A	WTM Serial:	535476
WTM Cal. Due Date:	May-2024	Gamma:	0.9997
WTM Thermometer:	Traceable	WTM Therm. Serial #:	221876752
WTM Therm. Cert. Due Date:	10-Nov-2024		

UUT Meter (DGM) / **Reference Meter (WTM)**

Run Time (seconds)	Orifice, ΔH (mm H_2O)	UUT Pulse Count			UUT Meter Temperature (°C)		Meter Pressure (mm H_2O)	Reference Meter Volume (L)			Reference Meter Outlet Temperature (°C)	
		Initial	Final	Total	Initial	Final		Initial	Final	Total	Initial	Final
Θ	P_{mstd}	C_{init}	C_{final}	C_{total}	t_{mi}	t_{mf}	P_w	V_{wi}	V_{wf}	V_w	t_{wi}	t_{wf}
43.84	120.00	0	14248	14248	23.3	23.4	-12.0	0.0	25.0	25.0	20.8	20.8
53.62	80.00	0	14370	14370	23.7	23.7	-8.0	0.0	25.0	25.0	20.8	20.9
68.21	50.00	0	14445	14445	24.3	24.5	-5.0	0.0	25.0	25.0	20.8	20.9
97.09	25.00	0	14491	14491	24.8	25.0	-3.0	0.0	25.0	25.0	20.9	20.9
135.87	13.00	0	14537	14537	25.4	25.5	-2.0	0.0	25.0	25.0	20.9	20.9

Standardized Data / **Scaling Factor** / **Calibration Results**

Reference Meter		Test Meter	Volume Conversion			Correction Factor		$\Delta H_@$ (mm H_2O)	
Std. Volume	Std. Flow Rate	Totalizer	Scaling Fac.	Std. Vol.	Flow Rate	Value	Variation	0.0212 SCMM	Variance
Vw_{std} (L)	Qw_{std} (L/min)	$Counts_{test}$	Y_{qc}	Vm_{std} (L)	Qm_{std} (L/min)	Y	ΔY	$\Delta H_@$	$\Delta\Delta H_@$
24.708	33.616	14145	1.75E-03	24.7	33.747	1.0020	0.0020	46.9	-0.209
24.715	27.656	14194	1.74E-03	24.7	27.688	0.9988	-0.0012	46.5	-0.563
24.721	21.745	14193	1.74E-03	24.7	21.765	0.9991	-0.0009	46.8	-0.271
24.721	15.277	14180	1.74E-03	24.7	15.276	1.0001	0.0001	47.2	0.160
24.724	10.918	14182	1.74E-03	24.7	10.918	1.0000	0.0000	48.0	0.883
			1.74E-03	= Avg.		1.0000	= Y Avg.	47.1 (Metric)	= ΔH@ Avg.

Note: For Calibration Factor Y, the ratio of the reading of the calibration meter to the dry gas meter, acceptable tolerance of individual values from the average is ±0.02.

Note: For $\Delta H_@$, orifice pressure differential that equates to 0.0212m^3/min at standard temperature and pressure, acceptable tolerance of individual values from the average is ±0.2inches (5.1mm) H_2O.

Pass/Fail Result: Pass

Console Input Value (cc/pulse): 1.7433

$\Delta H_@$ Avg. (inches H_2O): 1.85

Technician: Nathan Johnson Signature: Date: April 22, 2024

The instruments listed and described on this certificate have been calibrated against standards traceable to the National Institute of Standards and Technology (N.I.S.T.) and in reference to EPA Method 5, Section 10.3.1.

Apex Instruments - Address: 204 Technology Park Ln., Fuquay-Varina, NC 27526 USA | Tel: (919) 557-7300 Web: www.apexinst.com

Console Sensor Calibration Data Sheet - Cont.

Console Information

Model #: XD-502
Serial #: A2404228
Units: English
Type: "English" or "Metric"

Calibration Conditions

Pbar (in. Hg): 30.11
Humidity (%): 63.00
Tamb (°F): 69.20
Corr. Pbar (in. Hg): 29.70

Reference Device Information

TC Simulator Model: PIE-520-K
Reference #: 112693
Barometer Model: Airport
Barometer Serial #: N/A
Technician: AM

Vac. Gauge Model: N/A
Vac. Gauge Serial #: N/A
Digital Manometer Model: N/A
Digital Manometer Serial #: N/A

Pressure Sensors/Transducers Calibration Data

Console Barometric Calibration				Console Vacuum Calibration			
Reference Point	Reference Barometric Pressure	Console Bar. Press	Reference Point Status[3]	Reference Point	Reference Vacuum	Console Vacuum	Reference Point Status[4]
#	in. Hg	in. Hg	Pass/Fail	#	in. Hg	in. Hg	Pass/Fail
1	29.70	29.71	PASS	2	27.42	27.6	PASS

UUT Digital Pressure Transducer Audit

	Range	Reference Point	Target Pressure	Actual Ref. Pressure	Positive (+) Reading	Reference Point Status[5]	Actual Ref. Pressure	Negative (-) Reading	Reference Point Status[5]
	in. H2O	#	in. H2O	mm H2O	mm H2O	Pass/Fail	mm H2O	mm H2O	Pass/Fail
ΔH	5.000	0%	0.000	0.023	0.010	PASS	-	-	-
	0.1	-90%	-4.500	-	-	-	-	-	-
	Tolerance (±2% FS	-60%	-3.000	-	-	-	-	-	-
		-30%	-1.500	-	-	-	-	-	-
		30%	1.500	1.580	1.595	PASS	-	-	-
		60%	3.000	3.004	2.990	PASS	-	-	-
		90%	4.500	4.586	4.590	PASS	-	-	-
ΔP Low	1.000	0%	0.000	0.004	0.000	PASS	0.003	0.000	PASS
	0.02	-90%	-0.900	-0.886	-0.866	PASS	-0.899	-0.888	PASS
	Tolerance (±2% FS	-60%	-0.600	-0.606	-0.626	PASS	-0.598	-0.616	PASS
		-30%	-0.300	-0.301	-0.321	PASS	-0.310	-0.311	PASS
		30%	0.300	0.302	0.305	PASS	0.300	0.301	PASS
		60%	0.600	0.600	0.580	PASS	0.601	0.610	PASS
		90%	0.900	0.901	0.882	PASS	0.913	0.903	PASS
ΔP High	10.000	-90%	-9.000	-0.900	-0.914	PASS	-9.002	-8.990	PASS
	0.2	-60%	-6.000	-6.000	-6.030	PASS	-6.000	-6.160	PASS
	Tolerance (±2% FS	-30%	-3.000	-3.000	-3.200	PASS	-2.999	-3.130	PASS
		30%	3.000	2.943	2.990	PASS	2.990	3.000	PASS
		60%	6.000	6.012	5.960	PASS	6.022	6.010	PASS
		90%	9.000	9.000	9.060	PASS	9.001	9.030	PASS

Notes

[1] For valid test results, the maximum difference between temperature readings should be: EXIT: ≤ 2.0 °F, AUX/PROBE/FILTER: ≤ 5.4 °F, STACK: ≤ 1.5% Absolute Temperature Difference °R (EPA Method 5, Sections 6.1.1.7, 6.1.1.8 and 10.5)

[2] For valid test results, the maximum % difference between temperature readings should be less than 1.5% (EPA Method 2, Section 6.3)

[3] For valid test results, the maximum difference between console and reference barometric pressure readings should be less than ±0.1 in. Hg (±2.5 mm Hg), (EPA Method 5, Section 6.1.2)

[4] For valid test results, the maximum difference between console and reference vacuum readings should be less than ±0.5 in. Hg (±12.5 mm Hg)

[5] For valid test results, the maximum difference between console and reference pitot tube pressure readings should be less than ±0.05 in. H2O (±1.25 mm H2O), or 0.5% of full scale

Reviewed By: Nathan Johnson Date April 22, 2024

I certify that the above barometric and pressure sensors were calibrated in accordance with US EPA Methods 2 and 5, CFR 40 Part 60.

APEX INSTRUMENTS

Console Sensor Calibration Data Sheet

Revised: 2021/10/15

Console Information

Model #:	XD-502
Serial #:	A2404228
Units:	English (English or Metric)

Calibration Conditions

Pbar (in. Hg):	30.11
Humidity (%):	63
Tamb (°F):	69.2
Elevation (ft):	414.0
Corr. Pbar (in. Hg):	29.70

Reference Device Information

TC Simulator Model:	PIE-520-K	Vac. Gauge Model:	N/A
Reference #:	112693	Vac. Gauge Serial #:	N/A
Barometer Model:	Airport	Digital Manometer Model:	N/A
Barometer Serial #:	N/A	Digital Manometer Serial #:	N/A
Technician:	AM		

Temperature Sensors Calibration

Reference Point	Reference Temp.	Test Thermocouple Calibrations						Reference Point Status
		Aux	Stack	Probe	Oven	Filter	Exit	
#	°F	°F	°F	°F	°F	°F	°F	Pass/Fail
1	0	0.0	0.0	0.0	-1.0	0.0	0.0	PASS
2	100	100.0	100.0	99.0	99.0	100.0	100.0	PASS
3	200	200.0	199.0	199.0	199.0	200.0	200.0	PASS
4	300	300.0	300.0	299.0	299.0	300.0	300.0	PASS
5	500	-	500.0	-	-	-	-	PASS
6	700	-	699.0	-	-	-	-	PASS
7	900	-	899.0	-	-	-	-	PASS
8	1100	-	1099.0	-	-	-	-	PASS
9	1500	-	1500.0	-	-	-	-	PASS
10	1900	-	1900.0	-	-	-	-	PASS
								PASS

Overall Audit Status [1]

NIST Reference Thermocouple ID: 90728323

	Ice Bath Temperature	Thermocouple Sensor Reading	Abs. Temperature Difference
	°F	°F	°F
DGM Out	33.5	33.0	0.10%
	33.5	33.0	0.10%
		Maximum [2]:	0.10%

Notes

[1] For valid test results, the maximum difference between temperature readings should be: EXIT: ≤ 2.0 °F, AUX/PROBE/FILTER: ≤ 5.4 °F, STACK: ≤ 1.5% Absolute Temperature Difference °R (EPA Method 5, Sections 6.1.1.7, 6.1.1.8 and 10.5)

[2] For valid test results, the maximum % difference between temperature readings should be less than 1.5% (EPA Method 2, Section 6.3)

[3] For valid test results, the maximum difference between console and reference barometric pressure readings should be less than ±0.1 in. Hg (±2.5 mm Hg), (EPA Method 5, Section 6.1.2)

[4] For valid test results, the maximum difference between console and reference vacuum readings should be less than ±0.5 in. Hg (±12.5 mm Hg)

[5] For valid test results, the maximum difference between console and reference pitot tube pressure readings should be less than ±0.05 in. H2O (±1.25 mm H2O), or 0.5% of full scale

Reviewed By: Nathan Johnson Date April 22, 2024

I certify that the above thermocouple sensors were calibrated in accordance with US EPA Methods 2 and 5, CFR 40 Part 60.

Beatty Environmental Stack Test Thermocouple Calibrations

Calibration Device: ASTM Thermometer
Calibrated By: Beatty Environmental Services, Inc.

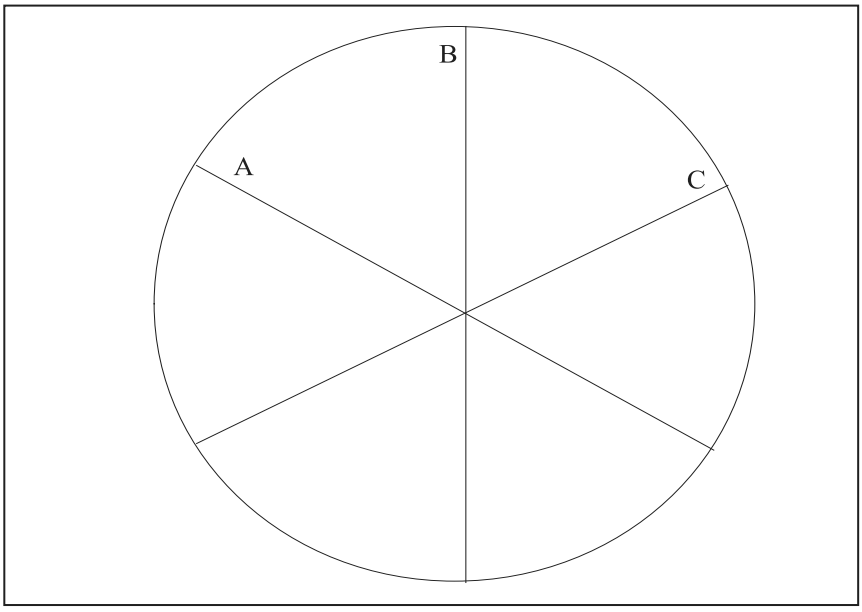
Device	Ambient Air
ASTM Thermometer	85
Dry Gas Meter Thermocouple	85
Filter Thermocouple	84
Filter Heater Thermocouple	85
Impinger Outlet Thermocouple	86
Stack Temp Thermocouple (5ft. Air Cooled)	85

10.5 Temperature Sensors. Use the procedure in Section 10.3 of Method 2 to calibrate in-stack temperature sensors. Dial thermometers, such as are used for the DGM and condenser outlet, shall be calibrated against mercury-in-glass thermometers. An alternative mercury-free NISTtraceable thermometer may be used if the thermometer is, at a minimum, equivalent in terms of performance or suitably effective for the specific temperature measurement application. As an alternative, the following single-point calibration procedure may be used. After each test run series, check the accuracy (and, hence, the calibration) of each thermocouple system at ambient temperature, or any other temperature, within the range specified by the manufacturer, using a reference thermometer (either ASTM reference thermometer or a thermometer that has been calibrated against an ASTM reference thermometer). The temperatures of the thermocouple and reference thermometers shall agree to within ±2 °F.

Nozzle Calibration

Nozzle ID #20

A = 0.501
B = 0.500
C = 0.500
Average 0.5003

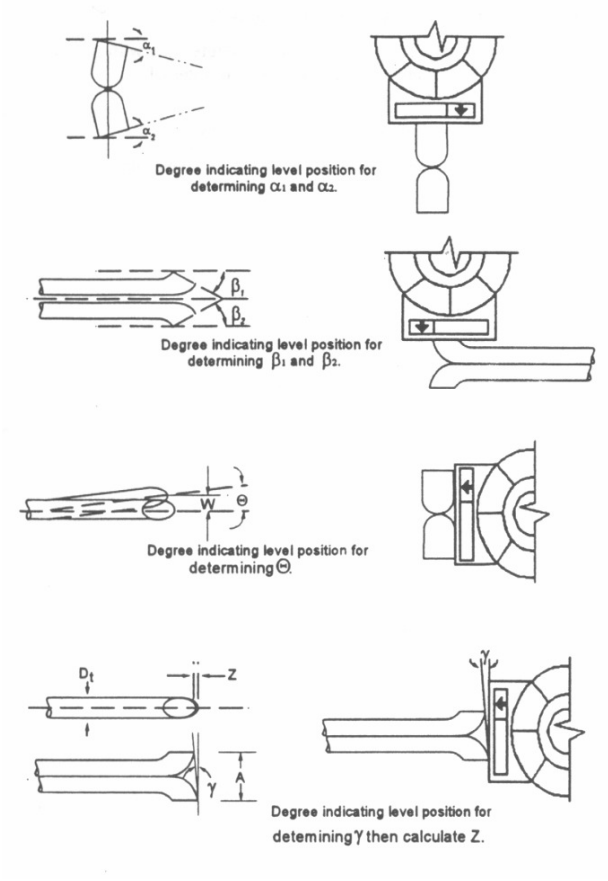


Calibration Date 5/9/2024

Calibrated by

PITOT CALIBRATION

(Type S Pitot Tube Inspection)



Level and Perpendicular?	Yes
Obstruction?	No
Damaged?	No
α_1 ($-10° \leq \alpha_1 \leq +10°$)	2
α_2 ($-10° \leq \alpha_2 \leq +10°$)	3
β_1 ($-5° \leq \beta_1 \leq +5°$)	1
β_2 ($-5° \leq \beta_2 \leq +5°$)	2
Y	1
θ	1
$z = A \tan \gamma$ ($\leq 0.125°$)	0.017
$w = A \tan \theta$ ($\leq 0.03125°$)	0.017
D_t ($3/16'' \leq D_t \leq +3/8''$)	0.375
A	0.984
$A/2\,D_t$ ($1.05 \leq P_A / D_t \leq 1.51$)	1.312

Certification

I hereby certify that type S pitot tube ID# P-5AC meets or exceeds all specifications, criteria and applicable design features, and is hereby assigned a pitot tube calibration factor of 0.84.

Certified by: Date 6/23/2023

ANALYZER CALIBRATION DATA
for
Resting Rainbow Pet Memorials and Cremations
Emission Unit: 001

	Analyzer Span
O2	22.0
CO	380.0

Facility: Resting Rainbow Pet
Project No.: 24025-ST
Date: 5/9/2024
Run Number 1
Unit: American A-250P-SXS(150lb/hr)
Personnel: Nicholas Decker
Analyzers: O2, CO,
Run Time: 8:20 - 9:20

		Calibration Error Check			System Calibration Check					
					Pre Run		Post Run			
	Calibration Value (% or ppm)	Cylinder Number	Analyzer Calibration Response	Difference (% of Span)	System Response	System Bias (% of Span)	System Response	System Bias (% of Span)	Drift (% of Span)	Calibration Error Factors
O_2 Zero	0.0	EB0081276	0.002	0.01	0.012	0.05	0.023	0.10	0.05	0.02
O_2 Mid	11.99	EB0138980	11.879	-0.50	11.892	0.06	11.903	0.11	0.05	11.90
O_2 High	22.0	EB0052408	22.003	0.01	NA		NA			
CO Zero	0.0	EB0081276	0.006	0.00	0.009	0.00	0.024	0.00	0.00	0.02
CO Mid	185.0	223503028	186.200	0.32	186.000	-0.05	186.800	0.16	0.21	186.40
CO High	380.0	222303046	380.000	0.00	NA		NA			

	Analyzer Span
O2	22.0
CO	380.0

Plant: Resting Rainbow Pet
Project No.: 24025-ST
Date: 5/9/2024
Run Number 2
Location: American A-250P-SXS(150lb/hr)
Personnel: Nicholas Decker
Analyzers: O2, CO,
Run Time: 9:38 - 10:38

		Calibration Error Check			System Calibration Check					
					Pre Run		Post Run			
	Calibration Value (% or ppm)	Cylinder Number	Analyzer Calibration Response	Difference (% of Span)	System Response	System Bias (% of Span)	System Response	System Bias (% of Span)	Drift (% of Span)	Calibration Error Factors
O2 Zero	0.0	EB0081276	0.002	0.01	0.023	0.10	0.019	0.08	-0.02	0.02
O2 Mid	11.99	EB0138980	11.879	-0.50	11.903	0.11	11.911	0.15	0.04	11.91
O2 High	22.0	EB0052408	22.003	0.01	NA		NA			
CO Zero	0.0	EB0081276	0.006	0.00	0.024	0.00	0.034	0.01	0.00	0.03
CO Mid	185.0	223503028	186.200	0.32	186.800	0.16	187.000	0.21	0.05	186.90
CO High	380.0	222303046	380.000	0.00	NA		NA			

	Analyzer Span
O2	22.0
CO	380.0

Plant: Resting Rainbow Pet
Project No.: 24025-ST
Date: 5/9/2024
Run Number 3
Location: American A-250P-SXS(150lb/hr)
Personnel: Nicholas Decker
Analyzers: O2, CO,
Run Time: 11:00 - 12:00

		Calibration Error Check			System Calibration Check					
					Pre Run		Post Run			
	Calibration Value (% or ppm)	Cylinder Number	Analyzer Calibration Response	Difference (% of Span)	System Response	System Bias (% of Span)	System Response	System Bias (% of Span)	Drift (% of Span)	Calibration Error Factors
O2 Zero	0.0	EB0081276	0.002	0.01	0.019	0.08	0.024	0.10	0.02	0.02
O2 Mid	11.99	EB0138980	11.879	-0.50	11.911	0.15	11.924	0.20	0.06	11.92
O2 High	22.0	EB0052408	22.003	0.01	NA		NA			
CO Zero	0.0	EB0081276	0.006	0.00	0.034	0.01	0.051	0.01	0.00	0.04
CO Mid	185.0	223503028	186.200	0.32	187.000	0.21	187.300	0.29	0.08	187.15
CO High	380.0	222303046	380.000	0.00	NA		NA			

GLOBAL CALIBRATION GASES LLC
ISO/IEC 17025:2017

CERTIFICATE OF ANALYSIS

CEM Grade Nitrogen

Customer:	Beatty Environmental Services	Cylinder #:	EB0041079	EB0139719
CGA:	580		EB0081276	EB0137715
Customer PO #:	20230016-BESG			
Reference #:	122722WZ-BB			
Certification Date:	01/23/2023			
Expiration Date:	01/23/2031			
Pressure, psig:	2000			

Component	Certified Concentration
Nitrogen	≥ 99.9995%
O2	*< 0.5 ppm*
H2O	*< 1.0 ppm*
THC	*< 0.1 ppm*
CO2	*< 1.0 ppm*
CO	*< 0.5 ppm*
NOx	*< 0.1 ppm*
SO2	*< 0.1 ppm*

Instrument/ Model	Serial Number	Last Date Calibrated	Analytical Method
Illinois/ 3000	30-0319	1/2/2023	Electrochemical
Mecco/ Waterboy LP2	14469	1/2/2023	Electrolytic
Gow-Mac/ 23-500	K35606	1/23/2023	Flame Ionization Detector
Micro GC/ Agilent	US020002031	1/23/2023	Thermal Conductivity
Horiba/ VA-5001	M9GW8GMX	1/23/2023	Non-Dispersive Infrared
CAI/ 600	Y09003	1/23/2023	Chemiluminescence
Horiba/ VIA-510	MAID39C8	1/23/2023	Non-Dispersive Infrared

This report states accurately the results of the investigation made upon the material submitted to the analytical laboratory. Every effort has been made to determine objectively the information requested. However, in connection with this report, Global Calibration Gases LLC shall have no liability in excess of the established charge for this service. These materials comply with the requirements for emission testing per 40CFR1065.750.

Produced by:
Global Calibration Gases LLC.
1090 Commerce Blvd N.
Sarasota, Florida 34243 USA
PGVP Vendor ID.: N22023

Analyst: Signature on file

Approved for release: 01/23/2023

GLOBAL CALIBRATION GASES LLC
ISO/IEC 17025:2017

EPA Protocol Gas Mixture

Customer:	Beatty Environmental Services	Reference #:	021523YG-16
CGA:	590	Certification Date:	02/21/2023
Customer PO #:	BES2300214	Expiration Date:	02/21/2031
Cylinder #:	EB0138980	Pressure, psig:	2000

Method: This standard was analyzed according to EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards, Procedure G1 (May 2012).

Components	Requested Concentration	Certified Concentration	Expanded Uncertainty (rel)	Assay Dates
Carbon Dioxide	9%	9.06%	0.8%	02/21/23
Oxygen	12%	11.99%	0.7%	02/21/23
Nitrogen	Balance	Balance	-	-

Reference Standard	Cylinder #	Concentration	Expanded Uncertainty (rel)	Expiration Date
Carbon Dioxide/ GMIS	CC105858	11.99%	0.5%	10/20/28
Carbon Dioxide/ SRM	CAL016053	15.63%	0.2%	02/07/25
Oxygen/ GMIS	EB0047724	12.53%	0.5%	11/08/27
Oxygen/ SRM	CAL015787	20.72%	0.2%	08/23/21

Instrument/ Model	Serial Number	Last Date Calibrated	Analytical Method
Teledyne/7500Z	N2A0826	2/21/2023	Non-Dispersive Infrared
Teledyne 3000MA	345133	2/21/2023	Paramagnetic

This mixture was prepared gravimetrically using a high load high sensitivity electronic scale. Prior to filling the scale is verified for accuracy throughout the target mass range against applicable NIST traceable weights, calibrated to ASTM E617-97 Echelon 1 tolerances.

This report states accurately the results of the investigation made upon the material submitted to the analytical laboratory. Every effort has been made to determine objectively the information requested. However, in connection with this report, there shall be no liability in excess of the established charge for this service.

The calibration results published in this certificate were obtained using equipment and standards capable of producing results that are traceable to National Institute of Standards and Technology (NIST). The expanded uncertainties use a coverage factor of k=2 to approximate the 95% confidence level of the measurement. This calibration certificate applies only to the item described and shall not be reproduced other than in full, without written approval from the calibration facility. These materials comply with the requirements for emission testing per 40CFR1065.750. Do not use this standard when cylinder pressure is below 100 psig.

Produced and assayed by:
Global Calibration Gases LLC
1090 Commerce Blvd N
Sarasota, Florida 34243
PGVP Vendor ID.: N22023

Analyst: Signature on file

Approved for release: 02/21/2023

RED BALL
TECHNICAL GAS SERVICES

ilac-MRA

PJLA
Calibration and Testing
Accreditation #62754

Red Ball Technical Gas Service
555 Craig Kennedy Way
Shreveport, LA 71107
800-551-8150
PGVP Vendor ID # G12021

EPA PROTOCOL GAS CERTIFICATE OF ANALYSIS

Cylinder Number:	EB0052408	**Certification Date:**	12/22/2021
Product ID Number:	130047	**Expiration Date:**	12/20/2029
Cylinder Pressure:	1900 PSIG	**MFG Facility:**	- Shreveport - LA
COA #	EB0052408.20211214-0	**Lot Number:**	EB0052408.20211214
Customer PO. NO.:		**Tracking Number:**	074202283
Customer:		**Previous Certification Dates:**	

This calibration standard has been certified per the May 2012 EPA Traceability Protocol, Document EPA-600/R-12/531, using procedure G1.

Do Not Use This Cylinder Below 100 psig (0.7 Megapascal).

Certified Concentration(s)

Component	Concentration	Uncertainty	Analytical Principle	Assayed On
Carbon Dioxide	**16.60 %**	±0.05 %	NDIR	12/22/2021
Oxygen	**22.0 %**	±0.12 %	MPA	12/21/2021
Nitrogen	Balance			

Analytical Measurement Data Available Online.

Reference Standard(s)

Serial Number	Lot	Expiration	Type	Balance	Component	Concentration	Uncertainty(%)	NIST Reference
EB0022021	EB0022021.20180323	07/15/2026	GMIS	N2	CO2	14.9 %	0.777	101001
EB0039149	EB0039149.20190610	11/24/2027	GMIS	N2	CO2	24.75 %	0.274	C1579010.02
EB0087693	EB0087693.20180504	07/21/2026	GMIS	N2	O2	24 %	0.497	071001

Analytical Instrumentation

Component	Principle	Make	Model	Serial	MPC Date
O2	MPA	Thermo	410i	1162980025	11/22/2021
CO2	NDIR	Thermo	410i	1162980025	12/20/2021

SMART-CERT

This is to certify the gases referenced have been calibrated/tested, and verified to meet the defined specifications. This calibration/test was performed using Gases or Scales that are traceable through National Institute of Standards and Technology (NIST) to the International System of Units (SI). The basis of compliance stated is a comparison of the measurement parameters to the specified or required calibration/testing process. The expanded uncertainties use a coverage factor of k=2 to approximate the 95% confidence level of the measurement, unless otherwise noted. This calibration certificate applies only to the item described and shall not be reproduced other than in full, without written approval from Red Ball Technical Gas Services. If not included, the uncertainty of calibrations are available upon request and were taken into account when determining pass or fail.

Anthony Cyr
Assistant Operations Manager
Assay Laboratory: Red Ball TGS
Version 02-J, Revised on 2018-09-17

GLOBAL CALIBRATION GASES LLC
ISO/IEC 17025:2017

EPA Protocol Gas Mixture

Customer:	Beatty Environmental Services	Reference #:	012323WZ-9
CGA:	660	Certification Date:	02/08/2023
Customer PO #:	20230016-BESG	Expiration Date:	02/08/2031
Cylinder #:	223503028	Pressure, psig:	2000

Method: This standard was analyzed according to EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards, Procedure G1 (May 2012).

Components	Requested Concentration	Certified Concentration	Expanded Uncertainty (rel)	Assay Dates
Nitric Oxide	185ppm	186.4ppm	1.0%	02/01/23, 02/08/23
NOx	185ppm	188.0ppm	1.0%	02/01/23, 02/08/23
Carbon Monoxide	185ppm	185ppm	1.1%	02/01/23
Nitrogen	Balance	Balance	-	-

Reference Standard	Cylinder #	Concentration	Expanded Uncertainty	Expiration Date
Nitric Oxide/ GMIS	EB0055162	195.6ppm	0.8%	10/30/23
NOx/ GMIS	EB0055162	196.5ppm	0.8%	10/30/23
Nitric Oxide/ SRM	CAL017400	244.5ppm	0.5%	11/02/15
NOx/ SRM	CAL017400	244.7ppm	0.5%	11/02/15
Carbon Monoxide/ GMIS	GN0000161	251.0ppm	0.5%	11/27/27
Carbon Monoxide/ SRM	FF30742	247.1 ppm	0.2%	04/13/24

Instrument/ Model	Serial Number	Last Date Calibrated	Analytical Method
CAI/ 600	Y09003	2/8/2023	Chemiluminescence
Horiba/ VA-5001	M9GW8GMX	2/1/2023	Non-Dispersive Infrared

This mixture was prepared gravimetrically using a high load high sensitivity electronic scale. Prior to filling the scale is verified for accuracy throughout the target mass range against applicable NIST traceable weights, calibrated to ASTM E617-97 Echelon 1 tolerances.

This report states accurately the results of the investigation made upon the material submitted to the analytical laboratory. Every effort has been made to determine objectively the information requested. However, in connection with this report, there shall be no liability in excess of the established charge for this service.

The calibration results published in this certificate were obtained using equipment and standards capable of producing results that are traceable to National Institute of Standards and Technology (NIST). The expanded uncertainties use a coverage factor of k=2 to approximate the 95% confidence level of the measurement. This calibration certificate applies only to the item described and shall not be reproduced other than in full, without written approval from the calibration facility. These materials comply with the requirements for emission testing per 40CFR1065.750. Do not use this standard when cylinder pressure is below 100 psig.

Produced and assayed by:
Global Calibration Gases LLC.
1090 Commerce Blvd N
Sarasota, Florida 34243
PGVP Vendor ID.: N22023

Analyst: Signature on file

Approved for release: 02/08/2023

GLOBAL CALIBRATION GASES LLC
ISO/IEC 17025:2017

EPA Protocol Gas Mixture

Customer:	Beatty Environmental Services	Reference #:	012323WZ-8
CGA:	660	Certification Date:	02/08/2023
Customer PO #:	20230016-BESG	Expiration Date:	02/08/2031
Cylinder #:	222303046	Pressure, psig:	2000

Method: This standard was analyzed according to EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards, Procedure G1 (May 2012).

Components	Requested Concentration	Certified Concentration	Expanded Uncertainty (rel)	Assay Dates
Nitric Oxide	375ppm	366.3ppm	0.8%	02/01/23, 02/08/23
NOx	375ppm	369.2ppm	0.8%	02/01/23, 02/08/23
Carbon Monoxide	375ppm	380ppm	0.8%	02/01/23
Nitrogen	Balance	Balance	-	-

Reference Standard	Cylinder #	Concentration	Expanded Uncertainty	Expiration Date
Nitric Oxide/ GMIS	GN0000305	393.0ppm	0.6%	09/14/26
NOx/ GMIS	GN0000305	393.7ppm	0.6%	09/14/26
Nitric Oxide/ SRM	CAL015880	782.4ppm	0.4%	01/09/19
NOx/ SRM	CAL015880	785.7ppm	0.4%	01/09/19
Carbon Monoxide/ GMIS	GN0000161	251.0ppm	0.5%	11/27/27
Carbon Monoxide/ SRM	FF30742	247.1 ppm	0.2%	04/13/24

Instrument/ Model	Serial Number	Last Date Calibrated	Analytical Method
CAI/ 600	Y09003	2/8/2023	Chemiluminescence
Horiba/ VA-5001	M9GW8GMX	2/1/2023	Non-Dispersive Infrared

This mixture was prepared gravimetrically using a high load high sensitivity electronic scale. Prior to filling the scale is verified for accuracy throughout the target mass range against applicable NIST traceable weights, calibrated to ASTM E617-97 Echelon 1 tolerances.

This report states accurately the results of the investigation made upon the material submitted to the analytical laboratory. Every effort has been made to determine objectively the information requested. However, in connection with this report, there shall be no liability in excess of the established charge for this service.

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Produced and assayed by:
Global Calibration Gases LLC
1090 Commerce Blvd N
Sarasota, Florida 34243
PGVP Vendor ID.: N22023

Analyst: Signature on file

Approved for release: 02/08/2023

Attachment F - Project Participants

Project Participants

Beatty Environmental Services, Inc.

Daniel R. Beatty
Project Director (VE)

Nicholas Decker
Field Manager (Method 5 Console)

Jefferey Rutledge
Field Technician I (Probe Technician)

Zachary Beatty
Director of Operations

Resting Rainbow Pet Memorials and Cremations - FID# 0112793

Joseph Castranova III
CEO

American
CREMATORY EQUIPMENT CO.

"SERVICE IS EVERYTHING"

CREMATION PROCESS DESCRIPTION

During incineration, the body is exposed to a column of flames produced by a furnace fueled by natural gas, oils, propane, etc. As the corpse is placed in a casket or container (preferably prepared from a combustible material), the container burns down. Next, the heat dries the body, burns the skin and hair, contracts and chars the muscles, vaporizes the soft tissues, and calcifies the bones so that they eventually crumble. The gases released during the process are discharged through an exhaust system. The bodies are mostly burned one at a time. There is usually no smell because the emissions are processed to destroy the smoke and vaporize the gases that would smell. Some crematories have a secondary afterburner to help burn the body completely. Otherwise, the cremation technician may have to crush the partially cremated remains with the help of a long hoe like rod. As a result, the corpse is reduced to skeletal remains and bone fragments. It is then collected in a tray or pan (tiny residue may still remain in the chamber and mix with the particles from subsequent cremations) and allowed to cool for some time. These remains, however, also contain non-consumed metal objects such as screws, nails, hinges, and other parts of the casket or container. In addition, the mixture may contain dental work, dental gold, surgical screws, prosthesis, implants, etc. These objects are removed with the help of strong magnets and/or forceps after manual inspection. All these metals are later disposed of as per the local laws. Mechanical devices, pacemakers, in particular, are removed beforehand because they may explode due to the intense heat and damage the cremation equipment and staff. It is suggested to remove jewelry items like rings, wrist washes, and other similar objects, too, as they are likely to break down during the process. Moreover, the metal pieces are removed before the next process because they may damage the equipment used for pulverization. Finally, the dried bone fragments are further ground into a finer sand like consistency. The machine used for this pulverization is called cremulator. On an average, it takes about one to three hours to cremate a human body, thereby reducing it to 37 pounds of cremains. The cremation remains are usually pasty white in color. 2/2/2017 How Is A Body Cremated? | Cremation Resource http://www.cremationresource.org/cremation/howisabody-cremated.html 3/3 These remains are transferred in a cremation urn and given to the relative or representative of the deceased. If you do not have an urn, the crematorium may return the ashes in a plastic box or default container. Factors Affecting Cremation Time The duration of a cremation process usually depends on certain factors. They are: weight or size of the body percentage of body fat to lean muscle mass the performance of cremation equipment's used operating temperature of the cremation chamber the type of cremation container or casket in which the body is placed

14530 ANSON AVENUE • SANTA FE SPRINGS, CA 90670
OFFICE: (562) 926-2876 • (800) 396-2254 • FAX: (562) 926-2880
www.americancrematory.com

IV. Public Notice *(if applicable)*
B. Technical Contact Taylor Burwell
Telephone Number: 562-755-7346
Fax Number:
Email Address: taylor@americancrematory.com
C. Bilingual Notice
Is a bilingual program required by the Texas Education Code in the School District? ☒ Yes ☐ No
Are the children who attend either the elementary school or the middle school closest to your facility eligible to be enrolled in a bilingual program provided by the district? ☒ Yes ☐ No
If "Yes," list which language(s) are required by the bilingual program below? Language(s): Spanish Language(s):

American CREMATORY EQUIPMENT CO.

"SERVICE IS EVERYTHING"

A-250P-SXS (Double) Model Specifications

1. Equipment
   - A-250-P-SXS (Double)
2. Operating Systems
   - PLC & Touch Screen Control System (ACS-1)
   - GUARDIAN DAS Control System
   - American Instant Access Control System
   - Aries Combustion Control System
3. Dimensions
   - Footprint..... 17'7"x 6'9"
   - Length..... 17' 7"
   - Width ..... 6' 9"
   - Height ..... 8' 8"
   - Chamber Loading Opening..... 41"x 32"
4. Weight = 36,000 Lbs.
5. Utility/Air Requirements
   - Gross Gas Input, Natural, or LP GAS.....2.5 Million BTU/Hr. Max. Input
   - Running Gas Pressure, Natural Gas..... 12-14" W.C. or Greater
   - Running Gas Pressure, LP Gas..... 11" W.C. or Greater
   - Electrical Supply.....230 Volt, 3 Phase or Single Phase, 50/60 HZ
   - Air Supply..... 2,500 cfm
6. Cremation Capacity..... 150 lbs./Hr.
7. Typical Loading Capacity of Waste Types
   - Type 4 Material..... Up to 400 lbs.
8. Construction and Safety Standards
   - UL 2790 & NFPA 86, 54
9. Steel Structure Construction
   - Frame..... 2"x 2" Square Tubing
   - Front/Rear Plates..... 3/8" Plate
   - Exterior Side Casing..... 12 Gauge Hot Rolled Sheet
   - Interior Casing..... 12 Gauge Hot Rolled Sheet

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www.americancrematory.com

10. Stack Construction
    - Carbon Steel or Stainless Steel (Optional)..... 14 Gauge Seal Welded Seams
    - Refractory Lining..... 4.5" 2800 Degree Castable
    - Stack Weight..... 1000 Lbs.
11. Venturi Construction
    - 310 Stainless Steel Dual Wall Welded Construction
12. Main Chamber Door
    - Carbon Steel ..... 1/4" Plate
    - Door Seal..... 4" Ceramic Fiber Construction
    - Refractory Lining..... 2800 Degree Insulating Castable
13. Primary Chamber Wall Construction
    - Exterior Casing Wall.....12 Gauge Hot Rolled Sheet
    - Interior Frame/Cavity.....2" Heat Dissipation & Insulation Cavity
    - Interior Casing Wall.....12 Gauge Hot Rolled Sheet
    - Interior Refractory Wall Insulation.....5" 1900 Degree Insulating Block
    - Interior Refractory Walls (Combination Wall) .....9" x 4.5" x 2.5" 3200 Degree Super Duty Firebrick & 2600 Degree Insulating Fire Brick (Optional Interlocking Fire Brick Available)
14. Secondary Chamber Wall Construction
    - Exterior Casing Wall.....12 Gauge Hot Rolled Sheet
    - Interior Frame/Cavity.....2" Heat Dissipation & Insulation Cavity
    - Interior Casing Wall.....12 Gauge Hot Rolled Sheet
    - Interior Refractory Wall Insulation.....6" 1900 Degree Insulating Block
    - Interior Refractory Walls (Combination Wall) ..... 9" x 4.5" x 2.5" 3000 Degree Super Duty Firebrick & 2600 Degree Insulating Fire Brick

15. Refractory Temperature Ratings
    - Super Duty Firebrick..... 3,200 Degrees F
    - Insulating Firebrick..... 2,600 Degrees F
    - Castable Refractory (Hearth)..... 3,200 Degrees F
    - Castable Refractory (Arch Roof)..... 3,000 Degrees F
    - Insulating Block..... 1,900 Degrees F
    - Brick Mortar..... 3,200 Degrees F
16. Chamber Volumes (Not Including External Flues, Stacks, or Chimneys)
    - Primary Chambers..... 21 Cubic Ft
    - Afterburner Chamber..... 145 Cubic Ft
17. Emission Control Features
    - Secondary Chamber Afterburner.....Standard
    - Opacity Monitor and Combustion Control.....Standard
    - O2 Monitoring and Control..... Optional
    - Combustion Air Control System..... Standard
    - Temperature Control System..... Standard
    - Fuel to Air Ratio Input Control System.....Standard
18. Operating Temperatures
    - Primary Chamber..... 1,550*F – 1,750*F
    - Secondary Chamber..... 1,650*F – 1,850*F
19. Secondary Chamber Retention Time
    - Type 4 material..... 150 lbs./hr.
    - Retention time..... 2.2 Seconds
20. Safety Interlocks
    - High Gas Pressure..... Standard
    - Low Gas Pressure..... Standard
    - Dual (normally closed) Safety Shut Off Single Housing Gas Valve. Standard
    - Blower Air Pressure..... Standard
    - Door Position..... Standard
    - Opacity..... Standard
    - Motor Starter Function..... Standard
    - Hydraulic Door System Motor Starter..... Standard
    - Low Fire Hold (Cremation Chamber)..... Optional
    - Motor Starter Overloads..... Standard
    - Proof of Closure Afterburner & Cremation Burner..... Standard
    - Flame Safeguard ..... Standard
    - Combustion Monitoring and Diagnostics..... Optional

21. Burner Description ……Medium Velocity, Low NOx, Nozzle Mix, Eclipse Therm Jet Burners
22. Ultraviolet Flame Detection…….. Standard
23. Operating Panel Indication Switch & Lights
    - Blower Start…….. Standard
    - Safe Run…….. Standard
    - Door Closed…….. Standard
    - Opacity Alarm…….. Standard
    - Afterburner (Secondary Burner) On/Off…….. Standard
    - Cremation Burner (Primary Burner) On/Off…….. Standard
    - Temperature Control Afterburner/Hi Limit…….. Standard
    - Afterburner Flame Fail(Secondary Burner) Reset…….. Standard
      (Remote Reset on Trilogy Models)
    - Cremation Burner Process Temperature Control…….. Standard
    - Cremation Burner Flame Fail(Primary Burner)…….. Standard
      (Remote Reset on Trilogy Models)
    - Remains Cool Down…….. Optional
    - Hearth Air On/Off…….. Standard
    - Throat Air On/Off…….. Standard
24. Automatic Process Control
    - Master Cycle Timer…….. Standard
    - Afterburner (Secondary Burner)…….. Standard
    - Cremation Burner (Primary Burner Delay)…….. Standard
    - Heart Air (Delay)…….. Standard
    - Throat Air (Delay)…….. Standard
    - Emissions Monitoring & Recording…….. Optional/As Required
    - Afterburner (Secondary Burner) Purge …….. Standard
    - Cool Down Timer…….. Standard
    - Opacity Combustion Control System…….. Optional/As Required
    - PLC & Touch Screen Control System…….. Optional
    - GUARDIAN DAS Control & Monitoring System…….. Optional
    - Aries Combustion Control System…….. Optional
    - American "Instant Access…….. Optional

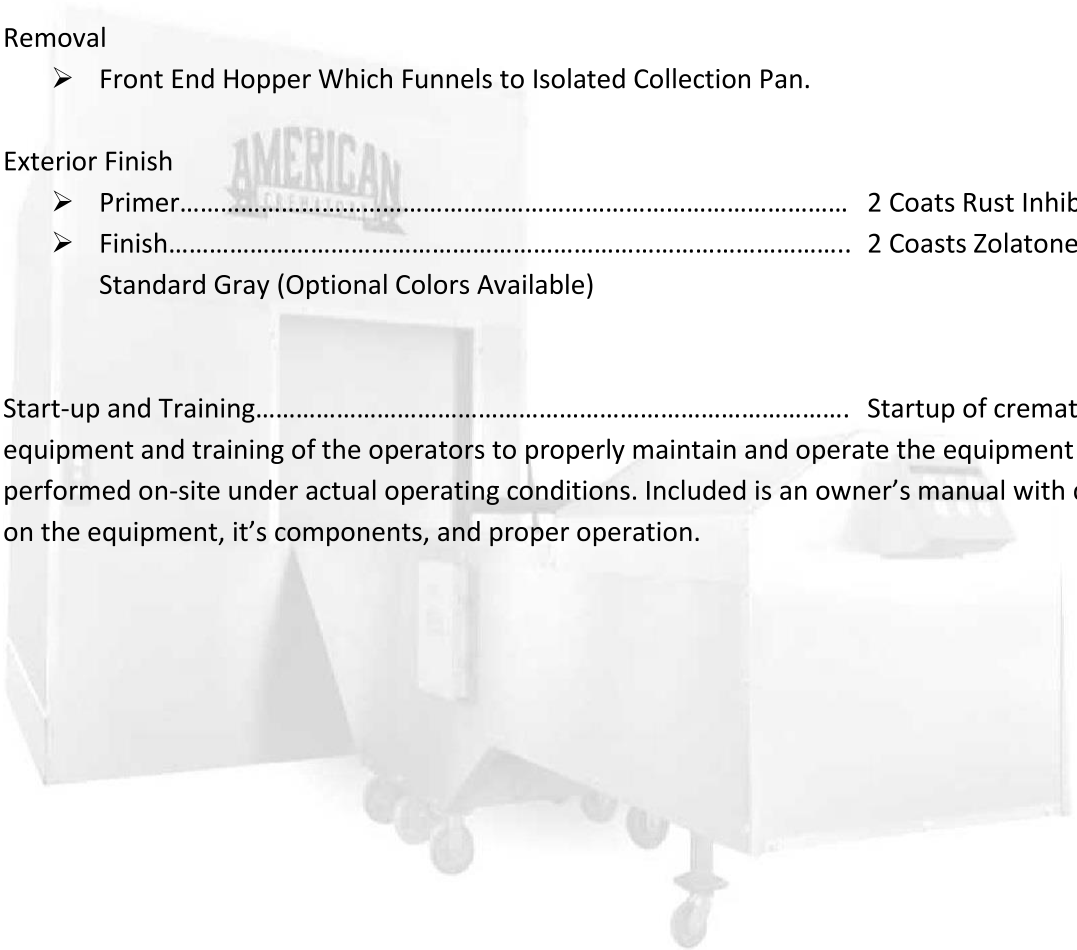
25. Manual Process Control
    - Throat Air Potentiometer
    - Hearth Air Potentiometer

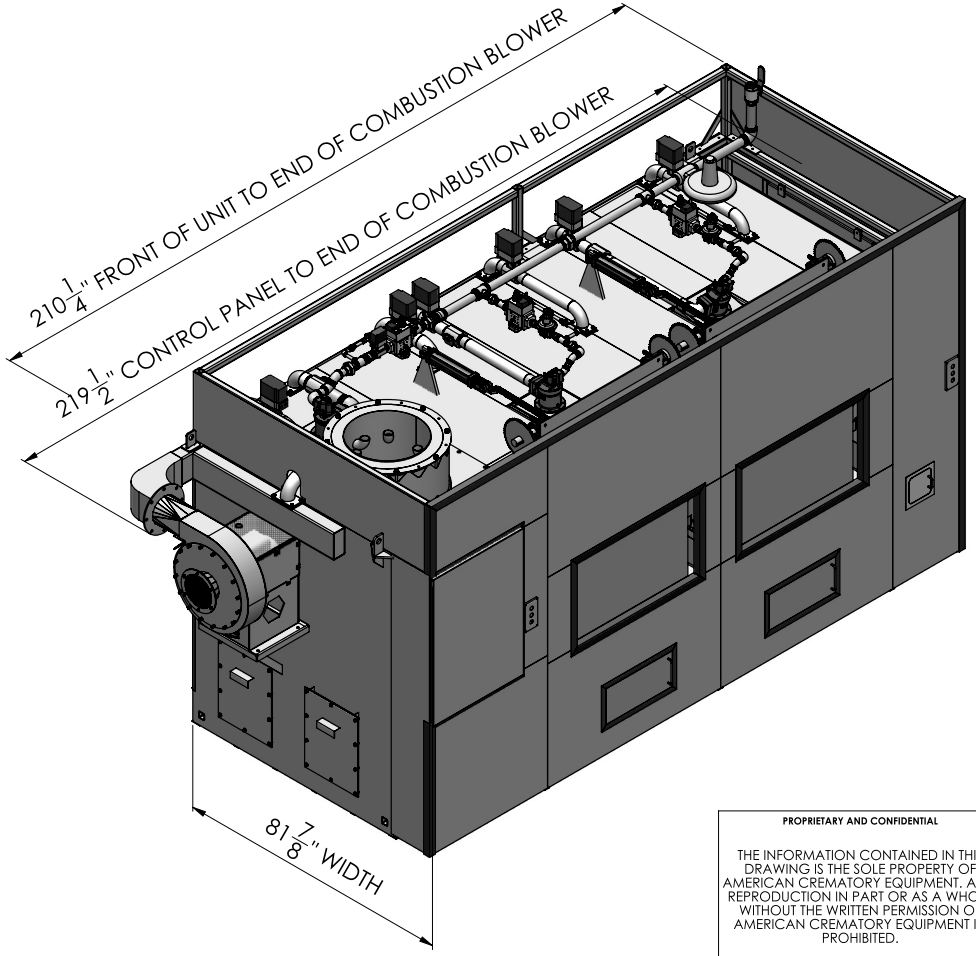
26. Removal
    - Front End Hopper Which Funnels to Isolated Collection Pan.

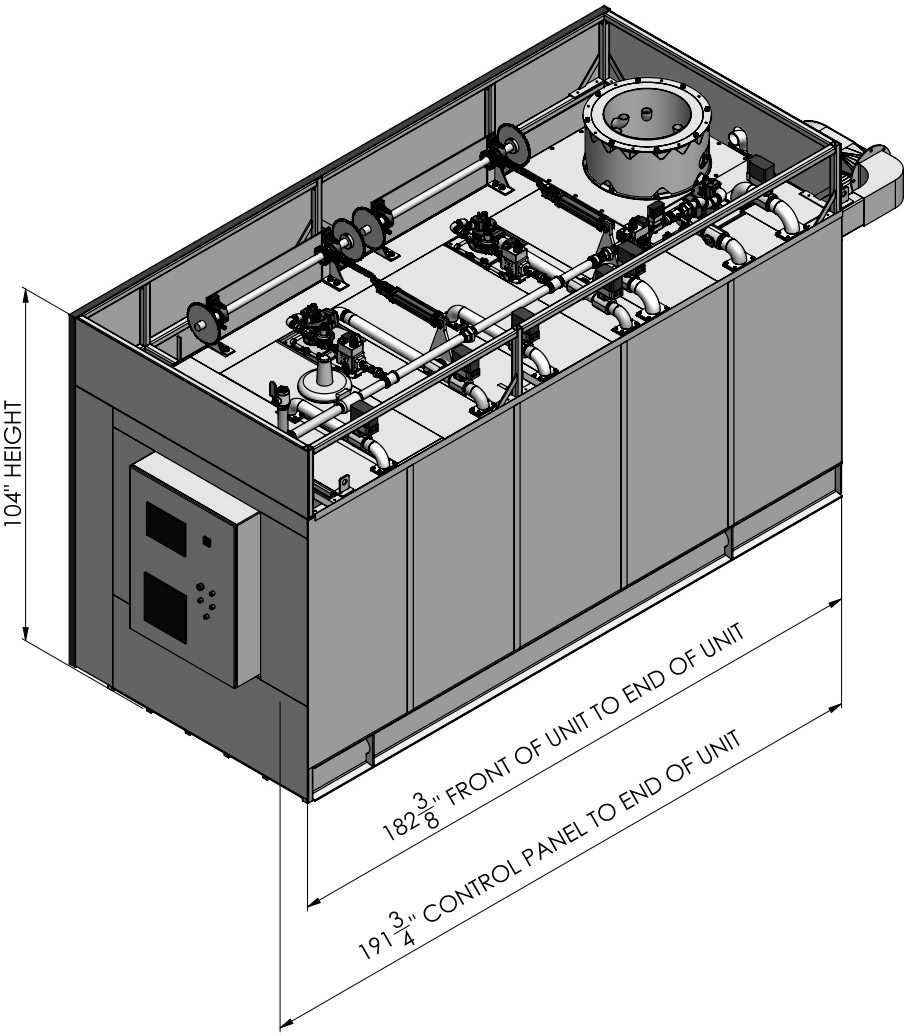
27. Exterior Finish
    - Primer…… 2 Coats Rust Inhibiting
    - Finish…….. 2 Coasts Zolatone

    Standard Gray (Optional Colors Available)

28. Start-up and Training…….. Startup of cremation equipment and training of the operators to properly maintain and operate the equipment is performed on-site under actual operating conditions. Included is an owner's manual with details on the equipment, it's components, and proper operation.







DWG. NO.

A250P-2S ISOMETRIC VIEW

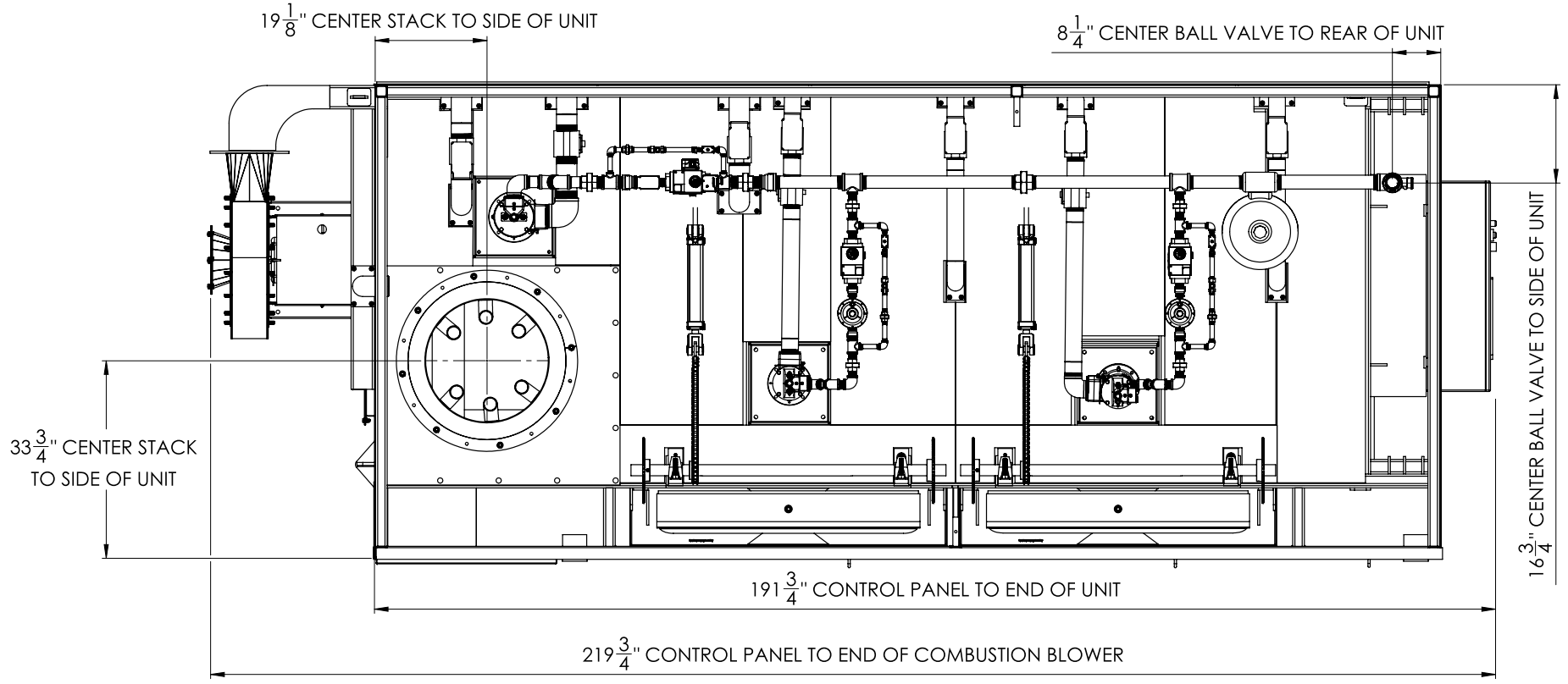
TITLE:

MATERIAL

Drawn By : RUBEN SALDANA

Date : 7/23/2024

American CREMATORY EQUIPMENT CO.
6601 Darin Way, Cypress CA 90630



DWG. NO.

A250P-2S TOP VIEW

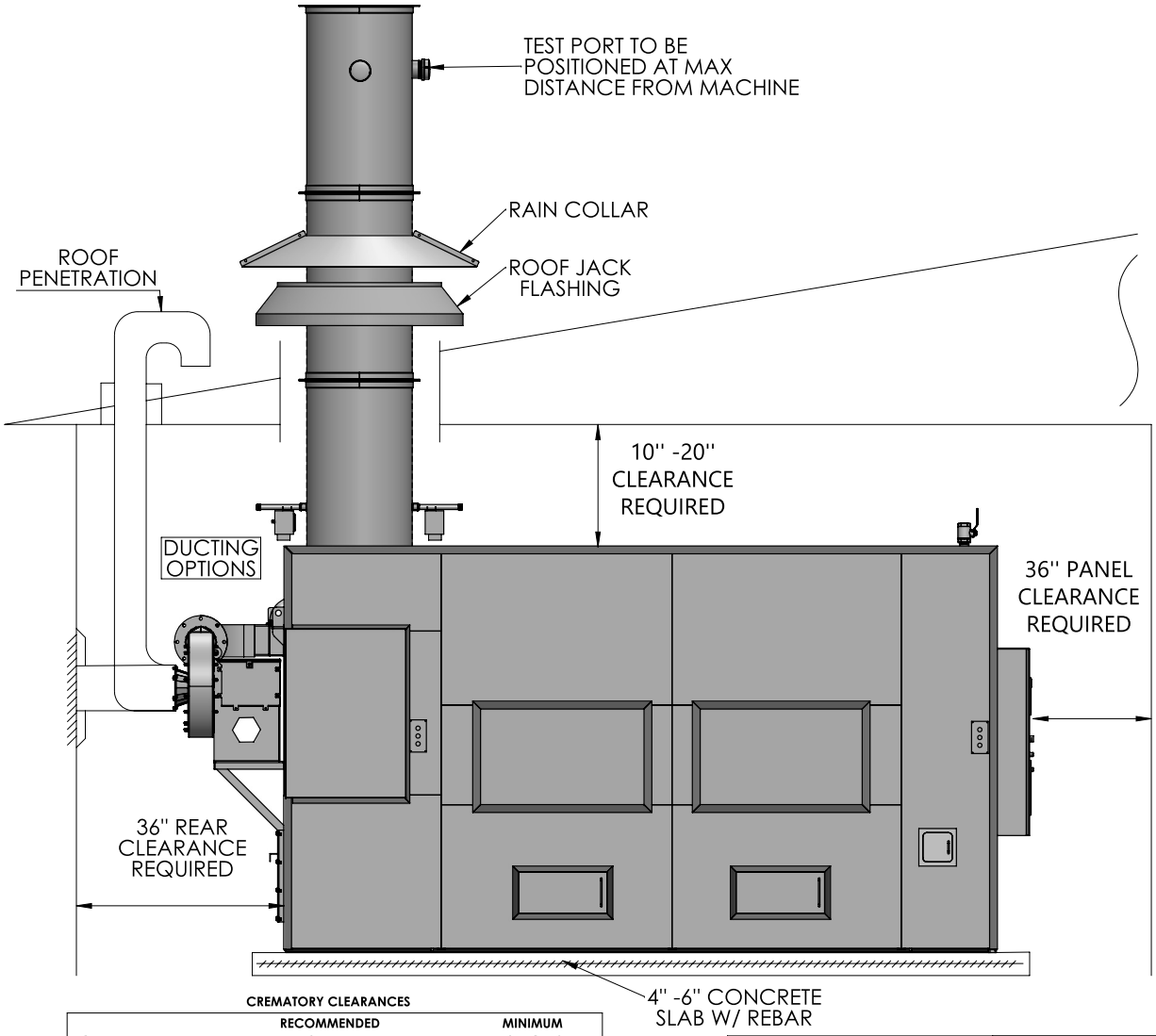
TITLE:

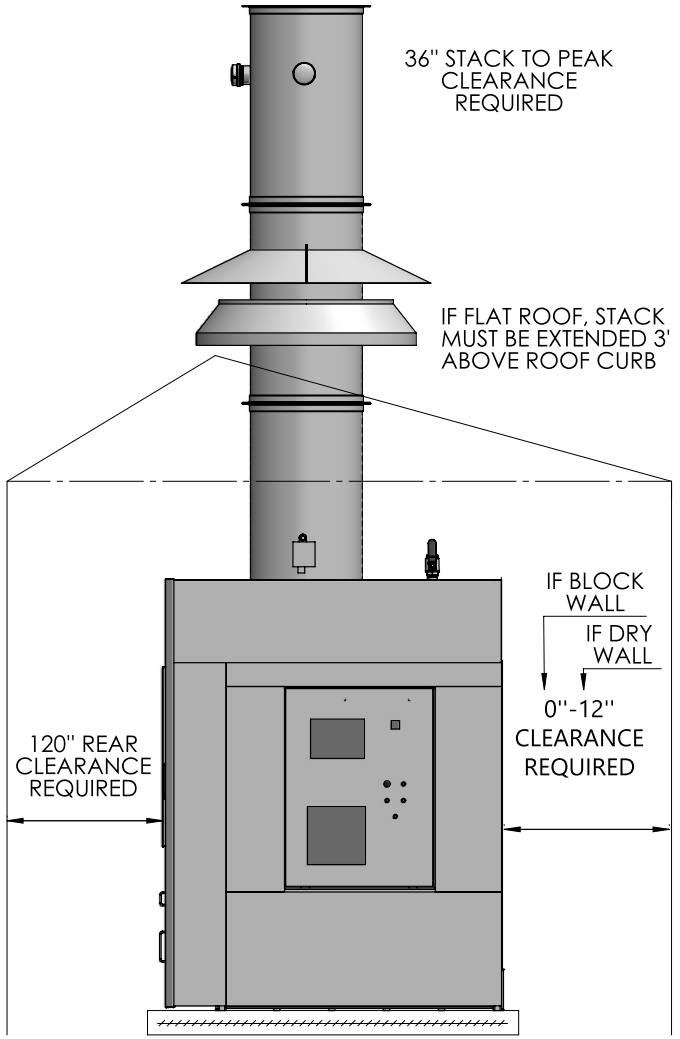
MATERIAL

Drawn By : RUBEN SALDANA

Date : 7/23/2024

American CREMATORY EQUIPMENT CO.
6601 Darin Way, Cypress CA 90630





CREMATORY CLEARANCES

	RECOMMENDED	MINIMUM
TOP:	3 FEET	12 INCHES
CABINET SIDE:	4 FEET	4 FEET
OTHER SIDE:	2 FEET	12 INCHES
FRONT:	10 FEET	9 FEET
REAR:	3 FEET	32 INCHES
STACK:	12 INCHES	10 INCHES

- FOR CLEARANCES OTHER THAN THOSE SHOWN , OR SPECIAL REQUIREMENTS CONSULT A.C.E.
- FROM HIGHEST POINT OF UNIT
- REAR OF UNIT REFERS TO 'BACK PLATE' RATHER THAN THE BACK OF THE BLOWER. (SEE PLAN VIEW).

Drawn By : RUBEN SALDANA

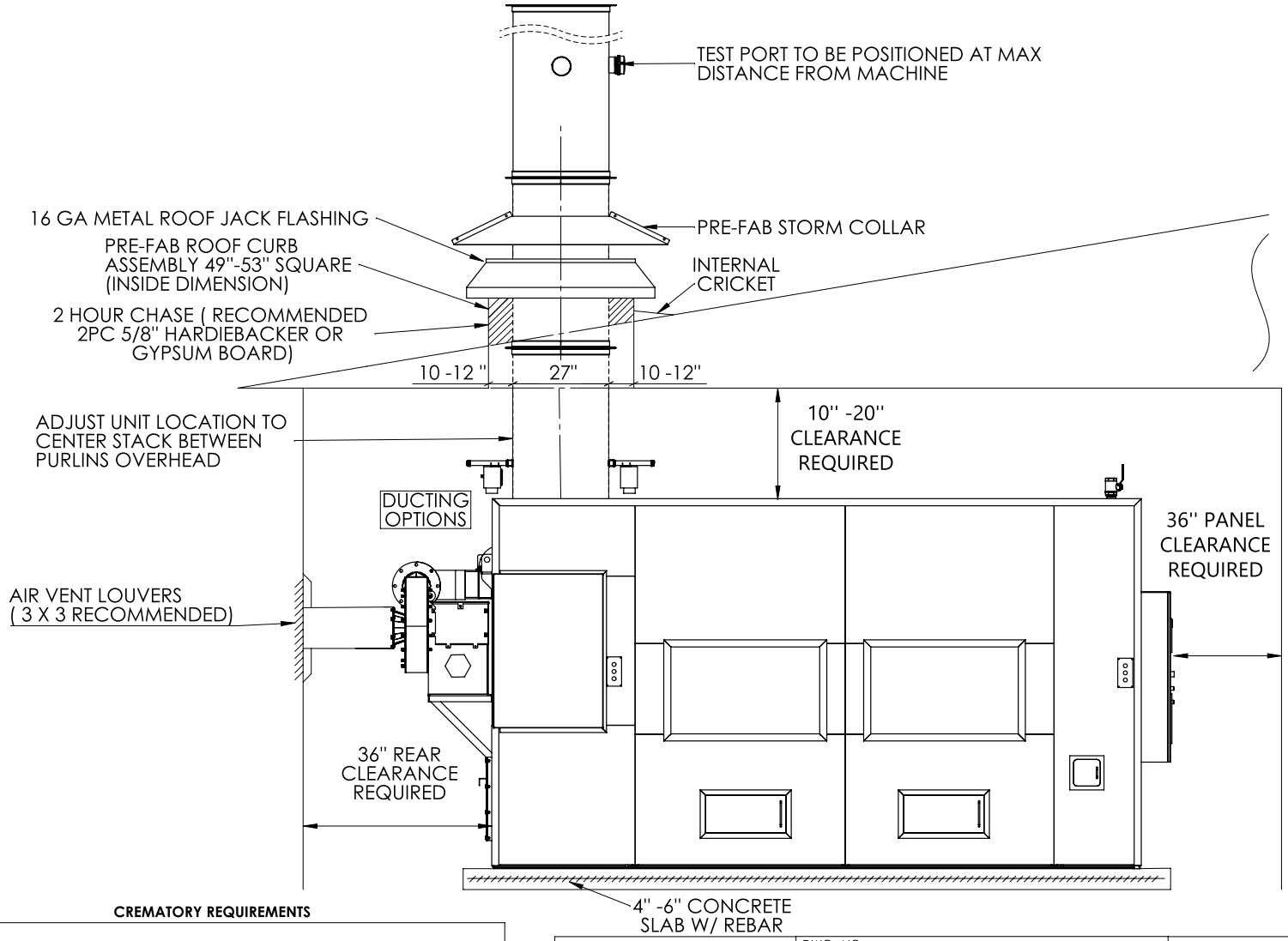
Date : 7/23/2024

DWG. NO. A250P-2S BUILDING CLEARANCE

TITLE:

MATERIAL

American CREMATORY EQUIPMENT CO.
6601 Darin Way, Cypress CA 90630



CREMATORY REQUIREMENTS

FUEL:
PRESSURE - 2 PSI FOR NATURAL GAS, OR 16"-18" W.C FOR LP GAS.

CAPACITY:
2.0 MILLION BTU/HR

ELECTRICAL:
230/208 VOLT, 3Ø , (50A BREAKER) & 230 VOLT, 1Ø ,(60A BREAKER)

AIR:
LOUVER NEAR THE REAR OF THE UNIT CAPABLE OF PASSING 2,500 CU FT /MIN OF FREE AIR (36"X 36")

Drawn By : RUBEN SALDANA

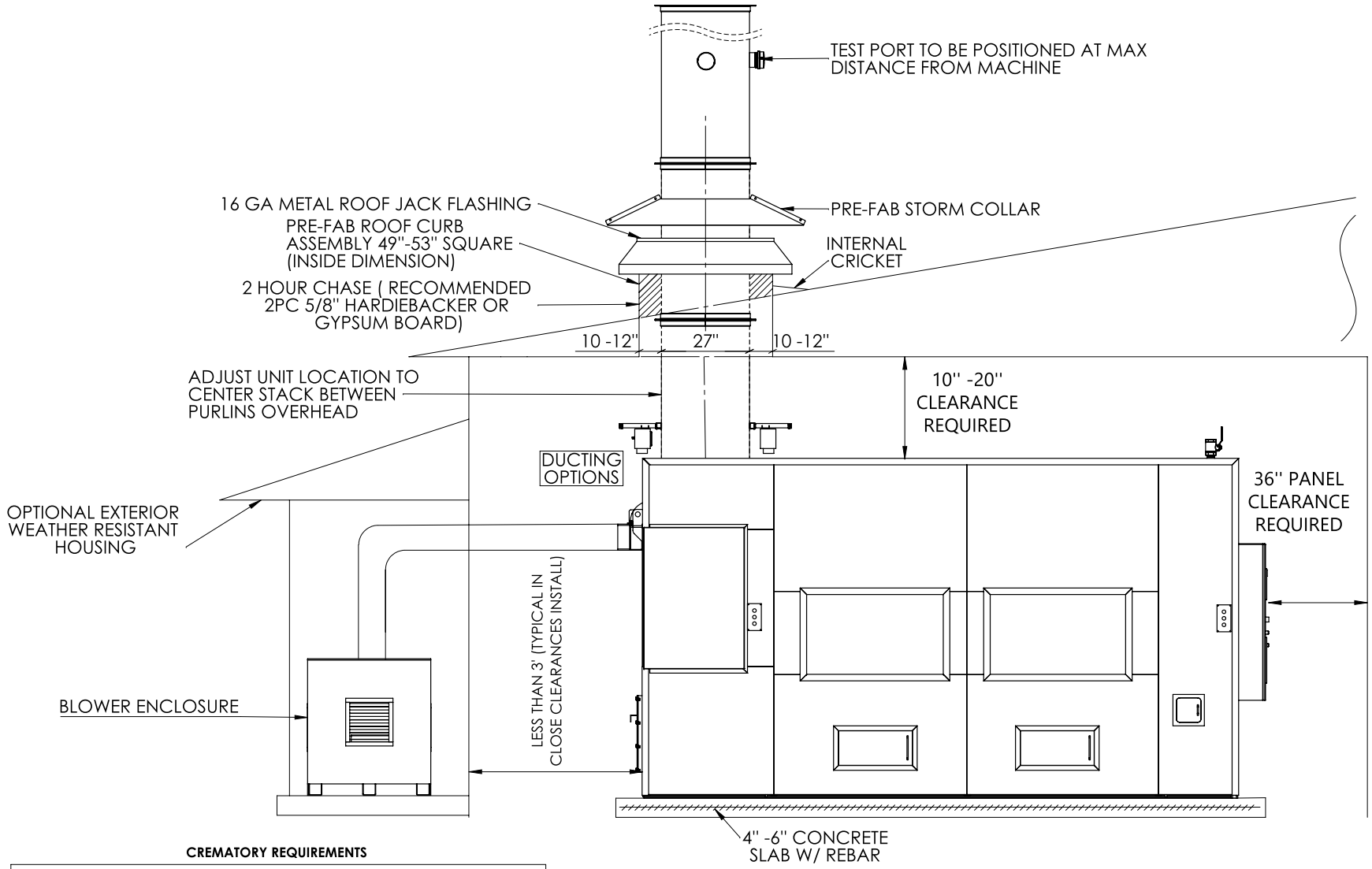
Date : 7/23/2024

DWG. NO. A250P-2S STANDARD BUILDING VIEW

TITLE:

MATERIAL

American CREMATORY EQUIPMENT CO.
6601 Darin Way, Cypress CA 90630



CREMATORY REQUIREMENTS

FUEL:
PRESSURE - 2 PSI FOR NATURAL GAS, OR 16''-18'' W.C FOR LP GAS.

CAPACITY:
2.0 MILLION BTU/HR

ELECTRICAL:
230/208 VOLT, 3Ø , (50A BREAKER) & 230 VOLT, 1Ø ,(60A BREAKER)

AIR:
LOUVER NEAR THE REAR OF THE UNIT CAPABLE OF PASSING 2,500 CU FT /MIN OF FREE AIR (36''X 36'')

Drawn By : RUBEN SALDANA

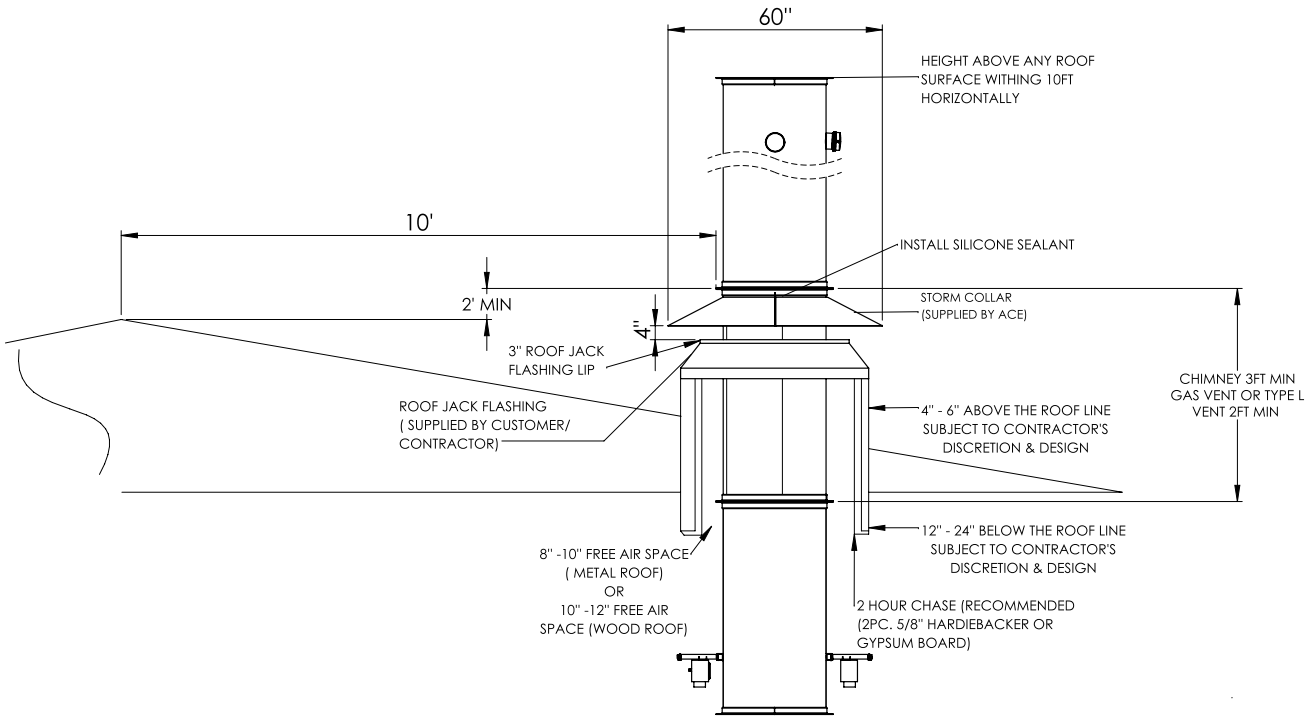
Date : 7/23/2024

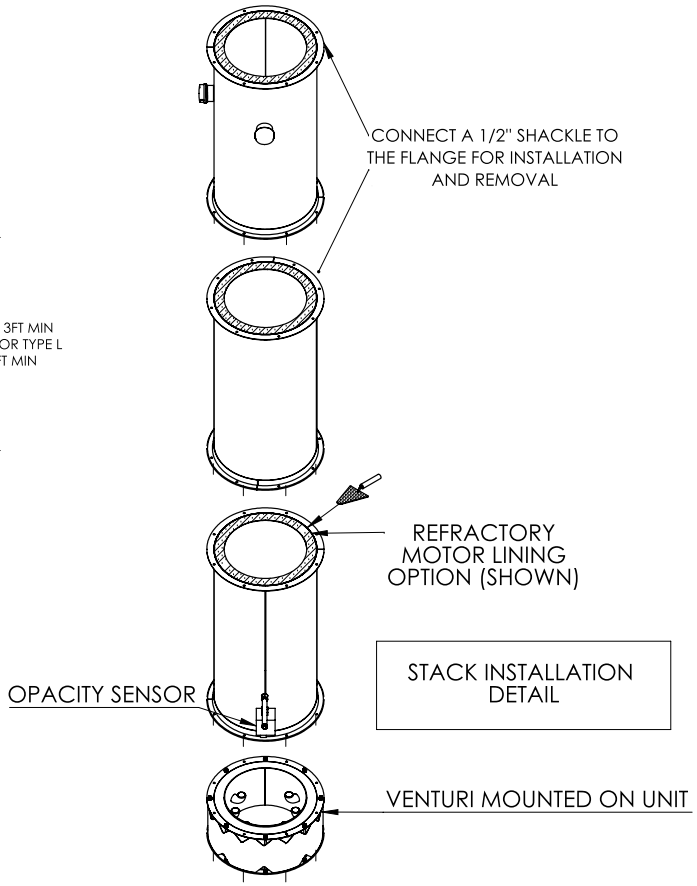
DWG. NO. A250P-2S PLAN VIEW W/ EXTERIOR BLOWER

TITLE:

MATERIAL

American CREMATORY EQUIPMENT CO.
6601 Darin Way, Cypress CA 90630





STACK INSTALLATION DETAIL

STACK INSTALLATION INSTRUCTIONS

1. APPLY A 1/2" THICK MORTAR JOINT TO EXPOSED REFRACTORY SURFACE IN STACK RING . LOWER THE BASE SECTION ONTO STACK RING AND FASTEN WITH HARDWARE PROVIDED (NO MORE THAN (2) STACK SECTIONS SHALL BE LIFTED TOGETHER.) REPEAT PROCESS FOR REMAINING STACK SECTIONS. IF SECTIONS OF VARYING LENGTHS ARE SUPPLIED , ASSEMBLE AS TO AVOID FLANGES & LIFTING EYES INTERFERING WITH RAIN COLLAR LOCATION.

2. INSTALL STORM COLLAR ON STACK, 3" ABOVE ROOF JACK (FLASHING), ALLOWING FOR PROPER VENTILATION.

3. APPLY A 1/4" BEAD OF HIGH TEMPERATURE SILICON SEALANT TO THE JOINT BETWEEN THE STORM COLLAR AND STACK.

4. STORM COLLAR IS FURNISHED BY A.C.E. ROOF JACK (FLASHING) TO BE PROVIDED BY OTHERS OR A.C.E IF CONTRACTED TO SUPPLY.

5. IF FIFTY PERCENT OF STACK LENGTH IS ABOVE THE ROOF. GUY WIRES MAY BE REQUIRED. CONSULT WITH YOUR A.C.E REP.

6. RAIN CAP NOT REQUIRED.

DWG. NO. PITHCED ROOF PENETRATION DETAIL

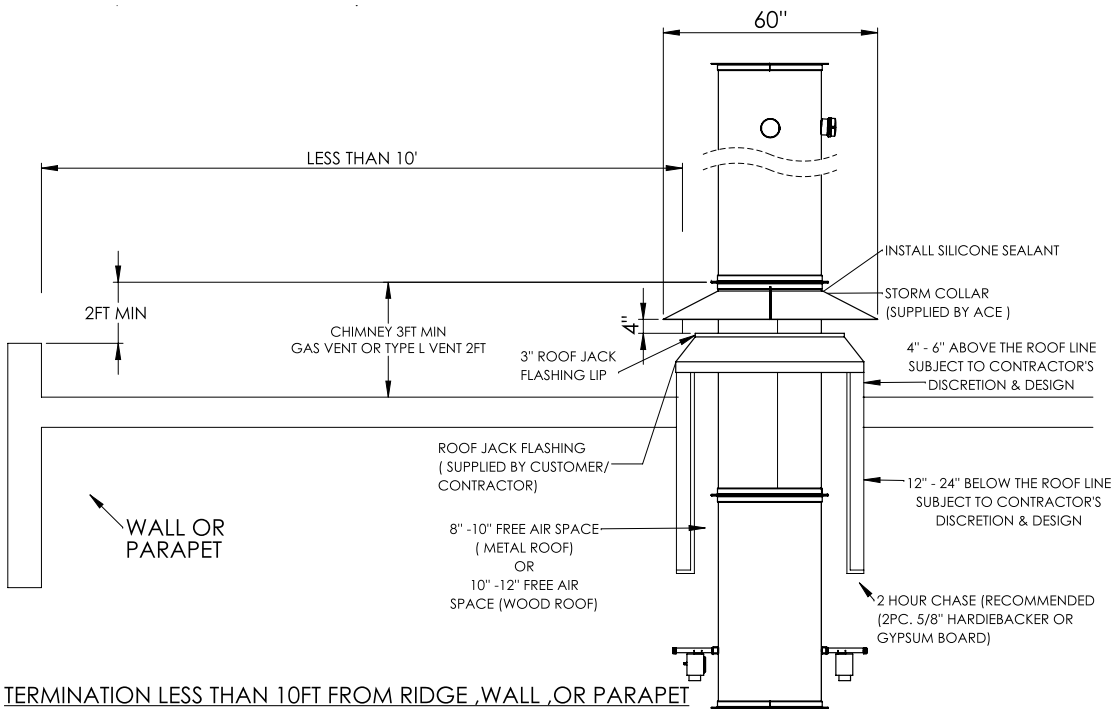
TITLE:

MATERIAL

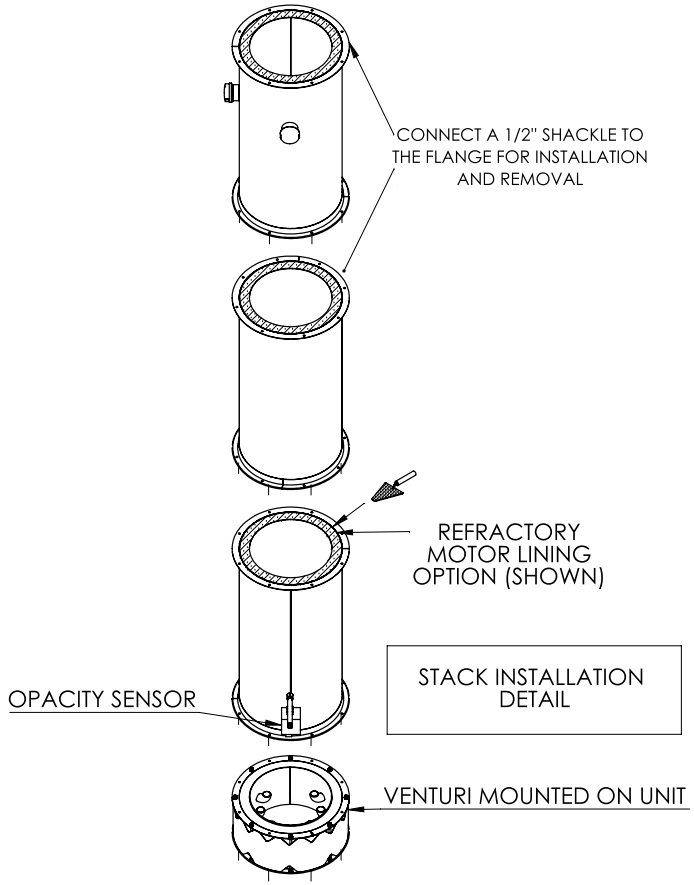
Drawn By : RUBEN SALDANA

Date : 7/23/2024

American CREMATORY EQUIPMENT CO.
6601 Darin Way, Cypress CA 90630



TERMINATION LESS THAN 10FT FROM RIDGE ,WALL ,OR PARAPET



STACK INSTALLATION DETAIL

STACK INSTALLATION INSTRUCTIONS

1. APPLY A 1/2" THICK MORTAR JOINT TO EXPOSED REFRACTORY SURFACE IN STACK RING . LOWER THE BASE SECTION ONTO STACK RING AND FASTEN WITH HARDWARE PROVIDED (NO MORE THAN (2) STACK SECTIONS SHALL BE LIFTED TOGETHER.) REPEAT PROCESS FOR REMAINING STACK SECTIONS. IF SECTIONS OF VARYING LENGTHS ARE SUPPLIED , ASSEMBLE AS TO AVOID FLANGES & LIFTING EYES INTERFERING WITH RAIN COLLAR LOCATION.

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5. IF FIFTY PERCENT OF STACK LENGTH IS ABOVE THE ROOF. GUY WIRES MAY BE REQUIRED. CONSULT WITH YOUR A.C.E REP.

6. RAIN CAP NOT REQUIRED.

DWG. NO. FLAT ROOF PENETRATION DETAIL

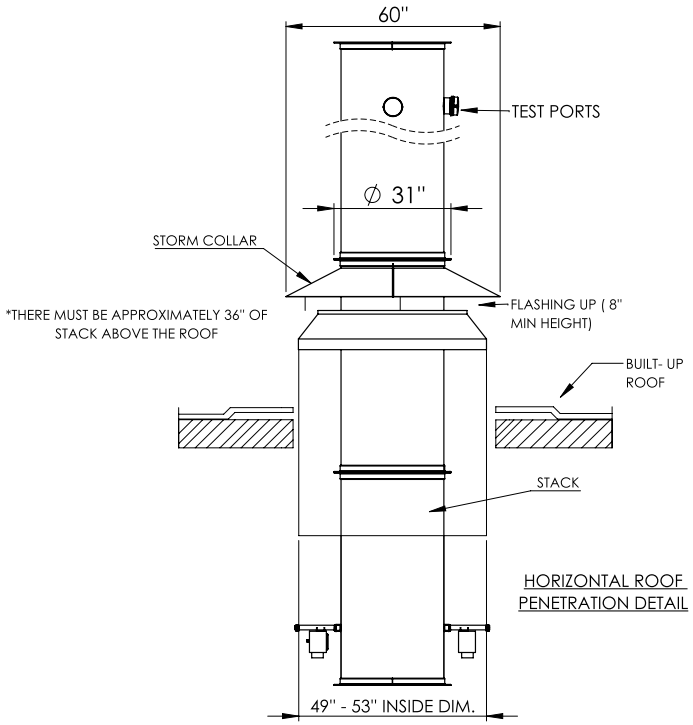
TITLE:

MATERIAL

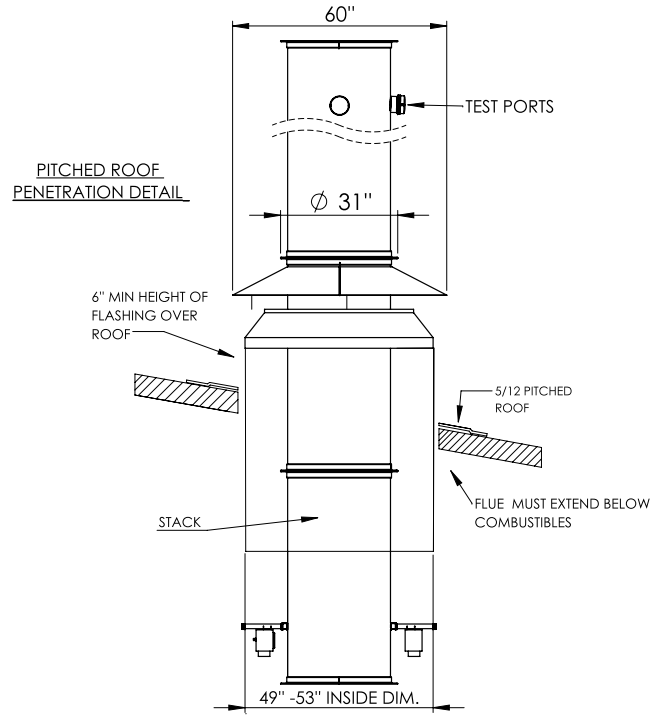
Drawn By : RUBEN SALDANA

Date : 7/23/2024

American CREMATORY EQUIPMENT CO.
6601 Darin Way, Cypress CA 90630



HORIZONTAL ROOF PENETRATION DETAIL



PITCHED ROOF PENETRATION DETAIL

STACK INSTALLATION INSTRUCTIONS

1. APPLY A 1/2" THICK MORTAR JOINT TO EXPOSED REFRACTORY SURFACE IN STACK RING . LOWER THE BASE SECTION ONTO STACK RING AND FASTEN WITH HARDWARE PROVIDED (NO MORE THAN (2) STACK SECTIONS SHALL BE LIFTED TOGETHER.) REPEAT PROCESS FOR REMAINING STACK SECTIONS. IF SECTIONS OF VARYING LENGTHS ARE SUPPLIED , ASSEMBLE AS TO AVOID FLANGES & LIFTING EYES INTERFERING WITH RAIN COLLAR LOCATION.

2. INSTALL STORM COLLAR ON STACK, 3" ABOVE ROOF JACK (FLASHING), ALLOWING FOR PROPER VENTILATION.

3. APPLY A 1/4" BEAD OF HIGH TEMPERATURE SILICON SEALANT TO THE JOINT BETWEEN THE STORM COLLAR AND STACK.

4. STORM COLLAR IS FURNISHED BY A.C.E. ROOF JACK (FLASHING) TO BE PROVIDED BY OTHERS OR A.C.E IF CONTRACTED TO SUPPLY.

5. IF FIFTY PERCENT OF STACK LENGTH IS ABOVE THE ROOF. GUY WIRES MAY BE REQUIRED. CONSULT WITH YOUR A.C.E REP.

6. RAIN CAP NOT REQUIRED.

DWG. NO. STACK PENETRATION DETAIL

TITLE:

MATERIAL

Drawn By : RUBEN SALDANA

Date : 7/23/2024

American CREMATORY EQUIPMENT CO.
6601 Darin Way, Cypress CA 90630

American
CREMATORY EQUIPMENT CO.

"SERVICE IS EVERYTHING"

Crematory Heat/Mass Balance

American Crematory Equipment Company

Model A-250

Fired on Natural Gas

These calculations have been prepared to evaluate the combustion process in the A-250 Model Cremator.

Firing Rate	125 Lbs./Hr.
Excess Air Availability	97%

The incinerator institute of America has published the following specifications covering average wastes.

Waste Type	**Type 0**	**Type 4**
BTU Per Pound	8500	1000
Pound of Ash per Pound of Waste	0.05	0.05
Pound of Moisture per Pound of Waste	0.1	0.85
Pound of Combustibles per Pound of Waste	0.85	0.1
Hourly Consumption of Waste (lbs.)	5.0	245.0

SPECIFICATIONS

Primary Cremation Burner Fuel Consumption (MMBTU/HR)		0.75
Primary Chamber Volume (CU. FT)		81.6
Hearth Area (SQ.FT)		27.2
Afterburner Fuel Consumption (MMBTU/HR)		1.0
Additional Combustion Air Supply	Throat Air	150 (SCFM)
	Hearth Air	100 (SCFM)
Afterburner Chamber Operating Temperature (Degree F)		1650
Afterburner Chamber Volume (CU. FT)		84
Afterburner Chamber Cross Sectional Area (SQ. FT)		4.5
Flame Port Area (SQ.FT)		10

14530 ANSON AVENUE • SANTA FE SPRINGS, CA 90670
OFFICE: (562) 926-2876 • (800) 396-2254 • FAX: (562) 926-2880
www.americancrematory.com

1.0 TOTAL FLUE PRODUCTS

- Cremation Burner Natural Gas Usage
  750000 BTU/HR = 714.29 CFH
  1050 BTU/CF = 11.94 CFM
- Combustion Air for Cremation Burner
  750 CF/HR x 2CF O_2/CF x 1CF Air/0.21 CF = 7142.9 CFH = 119.5 CFM
- Afterburner Natural Gas Usage
  1200000 BTU/HR = 1142.38 CFH
  1050/HR = 15.87 CFM
- Combustion Air for Afterburner
  1000 CF/HR x 2CF O_2/CF x 1 CF Air/0.21 CF = 9523.81 CFH = 158.73 CFM
- Actual Fuel Consumption (as shown on source test results) = 23.20 SCFM
- Products from Type 0 Waste (Container) 0.95 lbs./lb. Burned x 5 lb./hr. Burn Rate = 4.75 LBS/HR = 57 CFH = 1 CFM
- Products from Type 4 Waste (Tissue) 0.95 lbs./lb. Waste x 245 lb./hr. Burn Rate = 232.75 LBS/HR = 3025.75 CFH = 50.42 CFM
- Additional Combustion Air
  Throat Air = 150 CFM
  Hearth Air = 100 CFM
- Total Flue Products = 513 SCFM

2.0 VELOCITY AND TIME CALCULATIONS

- Total Products ACFM @ 1650° F

$$\frac{2060^{\circ}\ \text{RANKINE}}{530^{\circ}\ \text{RANKINE}} \times 513\ \text{CFM} = 1995\ \text{ACFM}$$

- Retention Time

$$\frac{84\ \text{CU. FT}}{1995\ \text{ACFM}} \times \frac{60\ \text{Seconds}}{1\ \text{Minute}} = 2.53\ \text{Seconds}$$

- Velocity in Flame Port

$$\frac{1995\ \text{ACFM}}{10\ \text{SQ. FT}} \times \frac{1\ \text{Minute}}{60\ \text{SECONDS}} = 3.33\ \text{FT/Second}$$

- Velocity in Afterburner Chamber

$$\frac{1995\ \text{ACFM}}{4.5\ \text{SQ. FT}} \times \frac{1\ \text{Minute}}{60\ \text{SECONDS}} = 7.39\ \text{FT/Second}$$

3.0 EXPECTED EMISSION RATE = BURN RATE X EMISSION FACTOR

Cremator Burn Capacity: 125 lbs./hr. of Remains(type 4) and associated containers(type 0)
Flue Gas Flow Rate (actual from source test) = 872 dscfm
Operating Schedule = 10 Hours per Day x 6 Days a Week x 52 Weeks a Year = 3120 Hours per Year

SULFER DIOXIDE (SO_2)

$$\frac{125\ \text{lbs./hr.} \times 2.5\ \text{lbs./ton} \times 1\ \text{ton}}{2000\ \text{lbs.}} = 0.15\ \text{lbs./hr.}$$

$$\frac{0.15\ \text{lbs./hr.} \times 4.54\text{E+05}\ \text{mg/lb.} \times 1\ \text{ppmv}}{872\ \text{dscfm} \times 60\ \text{min./hr.} \times 0.0283\ \text{m}^3/\text{f}^3 \times 2.61\ \text{mg/m}^3} = 37.92\ \text{ppmv}$$

NITROGEN OXIDE (NO_x)

$$\frac{125\ \text{lbs./hr.} \times 3\ \text{lbs./ton} \times 1\ \text{ton}}{2000\ \text{lbs.}} = 0.18\ \text{lbs./hr.}$$

$$\frac{0.18\text{lbs./hr.} \times 4.54\text{E+05}\ \text{mg/lb} \times 1\ \text{ppmv}}{872\ \text{dscfm} \times 60\ \text{min./hr.} \times 0.028\ \text{m}^3/\text{f}^3 \times 1.88\ \text{mg/m}^3} = 39.90\ \text{ppmv}$$

HYDROCARBONS (TOC/VOC – METHANE CH_4)

$$\frac{125\ \text{lbs./hr.} \times 3\ \text{lbs./ton} \times 1\ \text{ton}}{2000\ \text{lbs.}} = 0.18\ \text{lbs./hr.}$$

$$\frac{0.18\ \text{lbs./hr.} \times 4.54\text{E+05}\ \text{mg/lb} \times 1\ \text{ppmv}}{872\ \text{dscfm} \times 60\ \text{min./hr.} \times 0.0283\ \text{m}^3/\text{f}^3 \times 0.65\ \text{mg/m}^3} = 108.50\ \text{ppmv}$$

LEAD (pb) Exponential = 6.62E-05 lbs./cremation

$$\frac{125\ \text{lbs./hr.} \times 0.0000662\ \text{lb./pb}}{100\ \text{lbs.}} = 0.00008\ \text{lb./hr.}$$

PARTICULATES (PM & PM_{10}) *Actual levels lower as shown by source test results*

$$\frac{125 \text{ lbs./hr.} \times 7 \text{ lbs./ton} \times 1 \text{ ton}}{2000 \text{ lbs.}} = 0.437 \text{ lbs./hr.}$$

$$\frac{0.437 \text{ lbs./hr.} \times 7.00E{+}03 \text{ gr/lb.}}{872 \text{ dscfm} \times 60 \text{ min./hr.}} = 0.080 \text{ gr/dscf}$$

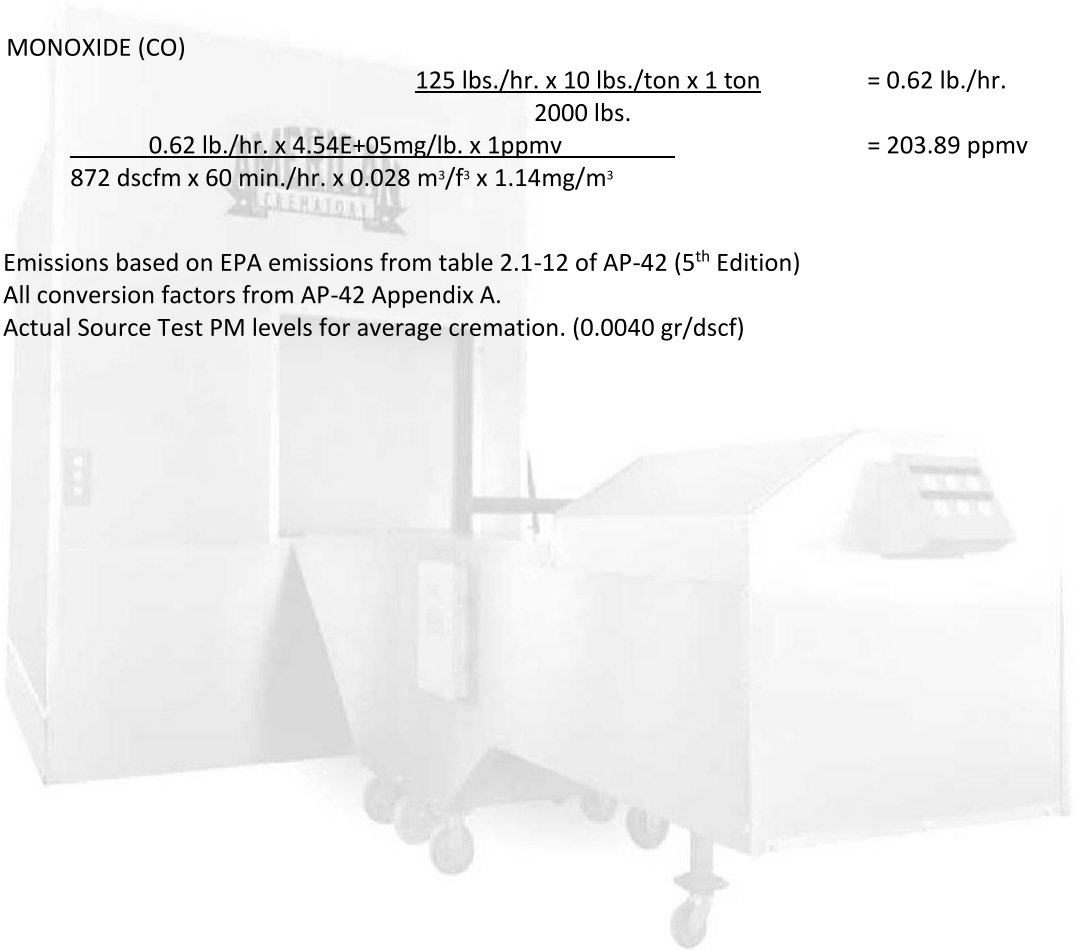
CARBON MONOXIDE (CO)

$$\frac{125 \text{ lbs./hr.} \times 10 \text{ lbs./ton} \times 1 \text{ ton}}{2000 \text{ lbs.}} = 0.62 \text{ lb./hr.}$$

$$\frac{0.62 \text{ lb./hr.} \times 4.54E{+}05 \text{mg/lb.} \times 1 \text{ppmv}}{872 \text{ dscfm} \times 60 \text{ min./hr.} \times 0.028 \text{ m}^3/\text{f}^3 \times 1.14 \text{mg/m}^3} = 203.89 \text{ ppmv}$$

Notes:

1. Emissions based on EPA emissions from table 2.1-12 of AP-42 (5th Edition)
2. All conversion factors from AP-42 Appendix A.
3. Actual Source Test PM levels for average cremation. (0.0040 gr/dscf)



Texas Commission on Environmental Quality

Standard Permit New Registration

Site Information (Regulated Entity)

What is the name of the site to be authorized?	Resting Rainbow - Houston
Does the site have a physical address?	Yes
Physical Address	
Number and Street	330 T C JESTER BLVD
City	HOUSTON
State	TX
ZIP	77007
County	HARRIS
Latitude (N) (##.######)	29.7765
Longitude (W) (-###.######)	-95.41765
Primary SIC Code	7261
Secondary SIC Code	
Primary NAICS Code	812220
Secondary NAICS Code	
Regulated Entity Site Information	
What is the Regulated Entity's Number (RN)?	
What is the name of the Regulated Entity (RE)?	Resting Rainbow - Houston
Does the RE site have a physical address?	Yes
Physical Address	
Number and Street	330 T C JESTER BLVD
City	HOUSTON
State	TX
ZIP	77007
County	HARRIS
Latitude (N) (##.######)	29.7765
Longitude (W) (-###.######)	-95.41765
Facility NAICS Code	812220
What is the primary business of this entity?	animal cremation services

Customer (Applicant) Information

How is this applicant associated with this site?	Owner
What is the applicant's Customer Number (CN)?	
Type of Customer	Corporation
Full legal name of the applicant:	
Legal Name	RR Houston Memorials, LLC
Texas SOS Filing Number	805850096
Federal Tax ID	332769700
State Franchise Tax ID	32098237053
State Sales Tax ID	
Local Tax ID	
DUNS Number	
Number of Employees	

Independently Owned and Operated?	
I certify that the full legal name of the entity applying for this permit has been provided and is legally authorized to do business in Texas.	Yes
Responsible Authority Contact	
Organization Name	RR Houston Memorials, LLC
Prefix	MR
First	Andrew
Middle	
Last	Snelgrove
Suffix	
Credentials	
Title	owner
Responsible Authority Mailing Address	
Enter new address or copy one from list:	Site Physical Address
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	1026 VAULTED OAK ST
Routing (such as Mail Code, Dept., or Attn:)	
City	HOUSTON
State	TX
ZIP	77008
Phone (###-###-####)	9492447661
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	andysnelgrove@yahoo.com

Responsible Official Contact

Person TCEQ should contact for questions about this application:	
Same as another contact?	RR Houston Memorials, LLC
Organization Name	RR Houston Memorials, LLC
Prefix	MR
First	Andrew
Middle	
Last	Snelgrove
Suffix	
Credentials	
Title	owner
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	1026 VAULTED OAK ST
Routing (such as Mail Code, Dept., or Attn:)	
City	HOUSTON
State	TX
ZIP	77008
Phone (###-###-####)	9492447661
Extension	
Alternate Phone (###-###-####)	

Fax (###-###-####)	
E-mail	andysnelgrove@yahoo.com

Technical Contact

Person TCEQ should contact for questions about this application:	
Same as another contact?	Responsible Official Contact
Organization Name	American Crematory Equipment Co
Prefix	MR
First	Taylor
Middle	
Last	Burwell
Suffix	
Credentials	
Title	Quality & Operations Lead
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	6601 DARIN WAY
Routing (such as Mail Code, Dept., or Attn:)	
City	CYPRESS
State	CA
ZIP	90630
Phone (###-###-####)	8003962254
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	taylor@americancrematory.com

Standard Permit General Information- New Reg Sites

1) Is this facility permanent or temporary?	Permanent
2) Will the proposed facility meet all of the requirements of the standard permit?	Yes
3) Select the type of unit that is being registered:	ANIMAL CARCASS INCINERATORS
3.1) Select the rule associated to the unit specified.	6009
3.2) Is the facility equal to or greater than 50 ft. from the nearest property line?	Yes

Standard Permit Attachments

Please attach one PDF with the PI-1S and all required documents to complete the project.

[File Properties]

File Name	Cremation Process.pdf
Hash	BCEDDEB8F43796424CFB98808E44AB6CB7B87ECFA943EE33ECE7CB8E65FEF2C5
MIME-Type	application/pdf
Confidential	No

[File Properties]

File Name	A-250 Heat Mass Emissions Calculations 125 pounds an hr.pdf
Hash	8CE1AB7F2C9D16B07023B2C79953E6ECD24D83B3E68EF61700271FAF8C8B8FEA
MIME-Type	application/pdf
Confidential	No

[File Properties]

File Name	A-250P-2 SXS Double Model Specifications (2).pdf
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MIME-Type	application/pdf
Confidential	No

[File Properties]

File Name	A250P-2S Building Plan View Stack Penetration (003) (1).pdf
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MIME-Type	application/pdf
Confidential	No

[File Properties]

File Name	A-250P-2 SXS Source Test Resting Rainbow Pet Memorials and Cremations FID 0112793 24025-ST (1).pdf
Hash	98B5563DF0BB9902D4C1119B606B1EF2BB6689FA2A03CBE53B5860A76DA8592B
MIME-Type	application/pdf
Confidential	No

[File Properties]

File Name	PI-1S.docx
Hash	BF6892D7285FF2758CA4972B50DEADE172F77E37B365D5DF1F2F22462A710967
MIME-Type	application/vnd.openxmlformats-officedocument.wordprocessingml.document
Confidential	No

Please attach any other necessary information needed to complete the registration.

Expedite

Per Texas Health and Safety Code, Section 382.05155, does the applicant want to expedite the processing of this application?	No

Certification

The electronic signature below indicates that the Responsible Official has knowledge of the facts herein set forth and that the same are true, accurate, and complete to the best of my knowledge and belief. By this signature, the maximum emission rates listed on this certification reflect the maximum anticipated emissions due to the operation of this facility and all representations in this certification of emissions are conditions upon which the facilities and sources will operate. It is understood that it is unlawful to vary from these representations unless the certification is first revised. The signature certifies that to the best of the Responsible Officials knowledge and belief, the project will satisfy the conditions and limitations of the indicated exemption or permit by rule and the facility will operated in compliance with all regulations of the Texas Commission on Environmental Quality and with Federal U.S. Environmental Protection Agency regulations governing air pollution. The signature below certifies that, based on information and belief formed after reasonable inquiry, the statements and information above and contained in the attached document(s) are true, accurate, and complete. If you questions on how to fill out this form or about air quality permits. Please call (512) 239-1250. Individuals are entitled to request and review their personal information that the agency gathers on its forms.

1. I am Taylor A Burwell-Ridgeway, the owner of the STEERS account ER114338.
2. I have the authority to sign this data on behalf of the applicant named above.
3. I have personally examined the foregoing and am familiar with its content and the content of any attachments, and based upon my personal knowledge and/or inquiry of any individual responsible for information contained herein, that this information is true, accurate, and complete.
4. I further certify that I have not violated any term in my TCEQ STEERS participation agreement and that I have no reason to believe that the confidentiality or use of my password has been compromised at any time.
5. I understand that use of my password constitutes an electronic signature legally equivalent to my written signature.
6. I also understand that the attestations of fact contained herein pertain to the implementation, oversight and enforcement of a state and/or federal environmental program and must be true and complete to the best of my knowledge.
7. I am aware that criminal penalties may be imposed for statements or omissions that I know or have reason to believe are untrue or misleading.
8. I am knowingly and intentionally signing Standard Permit New Registration.
9. My signature indicates that I am in agreement with the information on this form, and authorize its submittal to the TCEQ.

OWNER Signature: Taylor A Burwell-Ridgeway OWNER

Customer Number:	
Legal Name:	RR Houston Memorials, LLC
Account Number:	ER114338
Signature IP Address:	47.231.197.152
Signature Date:	2025-09-02
Signature Hash:	9CE27287B051040CB316B68BE9CE671046F92A46C0F71AC02FC08175E34D20F2
Form Hash Code at time of Signature:	437E6E7C5BFA6B895904ACA60156E2ACA1BD951E6CE9151F105CA00BE3B624FE

Fee Payment

Fee Amount:	$900.00
Check Date:	The application fee was paid on 2025-09-02
Check Number:	The check number is 781750

Submission

Reference Number:	The application reference number is 810606
Submitted by:	The application was submitted by ER114338/Taylor A Burwell-Ridgeway
Submitted Timestamp:	The application was submitted on 2025-09-03 at 08:30:28 CDT
Submitted From:	The application was submitted from IP address 47.231.197.152
Confirmation Number:	The confirmation number is 675452
Steers Version:	The STEERS version is 6.92

Additional Information

Application Creator: This account was created by Taylor A Burwell-Ridgeway

Registrations for Air Standard Permit
Form PI-1S Instructions
Texas Commission on Environmental Quality

Table of Contents

Introduction

The primary purpose of the Form PI-1S is to provide all administrative and technical information needed by the Air Permit Division (APD) to evaluate Standard Permit applications. These instructions are intended for use by applicants and consultants to help you prepare a complete Standard Permit request. The review of your project will go faster if you provide all necessary documents and information requested in the Form PI-1S and in the Core Data Form (TCEQ No. 10400).

Note: Applicants submitting registrations for Concrete Batch Plants (6004) and Concrete Batch Plants with Enhanced Controls (6008) must submit the PI-1S-CBP available here: www.tceq.texas.gov/permitting/air/forms/newsourcereview/nsr_sp_forms.html. It is required for these standard permit registrations received on or after September 1, 2020.

Applicants submitting registrations for the Marine Loading Operations standard permit (6021) are required to submit the PI-1S-MLO available here: www.tceq.texas.gov/permitting/air/forms/newsourcereview/nsr_sp_forms.html.

Overview

Texas Commission on Environmental Quality (TCEQ) regulates the release of air contaminants for specific, well-characterized classes of facilities under its Standard Permits.

Standard Permit projects must meet the requirements of the specific Standard Permit. For more information about the available Standard Permits, see our web page Standard Air Permits at www.tceq.texas.gov/permitting/air/nav/standard.html. TCEQ also has an Air Quality Permitting fact sheet available to assist you in determining some of the other state or federal requirements you may need to know, found at www.tceq.texas.gov/permitting/air/guidance/permit-factsheets.html

ePermits: TCEQ now requires the use of the online TCEQ e-Services system at https://www.tceq.texas.gov/agency/tceq-online-services to register your standard permit, pay registration fees, and receive registrations. To use the online system, you need to have an active State of Texas Environmental Electronic Reporting System (STEERS) account. Access STEERS at www3.tceq.texas.gov/steers/. For help with ePermits refer to the TCEQ STEERS ePermits Help web page at www3.tceq.texas.gov/steers/help/epr/eprmain.html. If an attachment cannot be submitted through STEERS due to the file size of an attachment which exceeds 50 MB or a file type which is not accepted, submit through FTPS. If using FTPS, you will share files with APIRT@tceq.texas.gov for the initial submittal. Once your project has been assigned, you will share files directly with your reviewer.

Confidential files should be submitted through STEERS or the TCEQ FTPS. All pages must be marked confidential and have *confidential* in the file name. Confidential submittals must be separate from non-confidential submittals.

Small Business Information and Agency Contacts

For agency contacts, see Contact Information for Air Permit Applications (including Environmental Assistance Division) by going to the “Who to go to for specific questions on air permit applications” link at www.tceq.texas.gov/permitting/air/air_permits.html.

Instructions for Form PI-1S

These instructions are provided to assist the regulated community to accurately complete a registration request to operate under a standard permit.

I. Registrant Information

A. Company or Other Legal Customer Name: Registrations are claimed by either the facility owner or operator, commonly referred to as the "registrant." List the legal name of the company, corporation, partnership, or person who is applying for the standard permit. Applicants can verify the legal name with the Texas Secretary of State at (512) 463-5555 or at https://www.sos.state.tx.us/index.shtml. TCEQ will also verify the legal name with the Texas Secretary of State. You may be asked to correct the name provided on the Form PI-1S, if found to be different. In some cases, we may request a copy of the legal document forming the entity to verify the legal name; for example: general partnership filed with the county.

B. Company Official Contact Information: Provide the name, title, mailing address, telephone number, fax number, and email address of the company official contact. The company official must not be a consultant. All correspondence and issued permit documents will be sent via email within one business day of TCEQ's decision. Please ensure that the email address provided for the company official is the most appropriate to receive time-sensitive correspondence from TCEQ.

C. Technical Contact Information: Provide the name, title, company, mailing address, telephone number, fax number, and email address of the person TCEQ should contact for technical questions. This person must have the authority to make binding agreements and representations on behalf of the registrant. The technical contact may be a consultant.

II. Facility and Site Information

A. Name and Type of Facility: Enter the name of the facility for which the standard permit registration is being requested. The name should be descriptive and indicate the general type of operation, manufacturing process, equipment, or facility which would be authorized under the standard permit (include any numerical designation, if appropriate). The name must be descriptive and specific. Examples of acceptable names are, "Sulfuric Acid Plant" and "No. 5 Steam Boiler" Vague names such as, "Chemical Plant" and "North Process Area," are not acceptable names. Also, check the appropriate box indicating the type of facility as either permanent or temporary. For hot mix asphalt plants, a temporary plant is limited to 180 days on site, or for the duration required to complete a single project. Hot mix asphalt plants that are expected to remain on site more than 180 days, and all rock and concrete crushers are considered permanent. Additionally, oil and gas production units are usually considered to be permanent. For portable units, please provide the serial number(s) of the equipment being authorized.

B. Facility Location Information: Provide the street address of the facility, if available. If there is no street address, describe the physical location with specific written directions. Identify the location by distance and direction from well-known landmarks, such as highway intersections. It is very important to also include the city and county where the facility will be located. If the address is not located in a city, then enter the city or town closest to the facility even if it is not in the same county as the facility. The county indicated must be the county where the facility is physically located. Please include the ZIP Code of the physical facility site, not the ZIP Code of the applicant's mailing address. In some cases, TCEQ may request a map showing the location of the facility during the review of the standard permit registration.

C. TCEQ Core Data Form: We require that you submit a Core Data Form (TCEQ Form Number 10400) on all incoming applications unless the following are met.

1. Regulated Entity and Customer Reference Numbers have been issued by TCEQ and.

2. No Core data information has changed.

Note: The Core Data Form is required for Standard Permits, 6002, 6007, 6012, 6013, 6014, and 6020 without exception. Information required on the Core Data Form includes the following:

- Customer Reference Number (CN): This is a unique number given to each business, governmental body, association, individual, or other entity that owns, operates, is responsible for, or is affiliated with a regulated entity. We assign the CN when a Core Data Form is initially submitted.
- Regulated Entity Number (RN): This is a unique agency assigned number given to each person, organization, place, or thing that is of environmental interest to us and where regulated activities will occur. The RN is assigned when a Core Data Form is initially submitted, if the agency has conducted an investigation, or if the agency has issued an enforcement action. The RN replaces existing air account numbers. The RN for portable units is assigned to the unit itself, and that same RN should be used when applying for authorization at a different location.

Note: *The company and facility site information provided on the Core Data Form must be the same as provided on the Form PI-1S.*

D. **TCEQ Account Identification Number:** This number was assigned by TCEQ to the entire property owned or controlled by the applicant at a specific location. A typical example of an air quality account number is, JB-1234-R. Portable facilities are assigned account identification numbers which begin with a number, such as 92-1234-K. Provide your TCEQ account identification number if known.

E. **Type of Action:** Indicate the type of action being requested by checking the appropriate box. Check:

- *Initial Application* – if the facility has not previously been authorized by a standard permit,
- *Change to Registration* – if the facility has been previously registered, but changes or additions have occurred,
- *Renewal or Renewal Certification* – if a standard permit registration for the facility must be renewed. To determine which type of renewal the project qualifies for, see Section V Renewal Certification Option.

Provide the existing registration number and expiration date if Change to Registration, Renewal, or Renewal Certification is checked.

F. Standard Permit Claimed: Provide the standard permit that is being claimed. Below is a list of standard permits that can be claimed using the Form PI-1S. If the standard permit to be claimed is not listed, please check the Air Permits website for the appropriate registration or notification form at www.tceq.texas.gov/permitting/air/nav/standard.html.

Standard Permit	Description
6001	Air Quality Pollution Control Projects
6002	Oil and Gas Handling and Production Facilities
6005	Electric Generating Units
6007	Permanent Hot Mix Asphalt Plants Temporary Hot Mix Asphalt Plants
6009	Animal Carcass Incinerators
6011	Boilers
6012	Sawmills
6013	Permanent Rock and Concrete Crushers
6014	Anhydrous Ammonia Storage and Distribution Operations
6015	Dry Bulk Fertilizer Handling Operations
6016	Cotton Gin Facilities and Cotton Burr Tub Grinders
6017	Feedmills, Portable Augers, and Hay Grinders
6018	Grain Elevator/Grain Handling Operations and Portable Grain Augers
6019	Peanut-Handling Operations
6020	Temporary and Permanent Polyphosphate Blenders
6022	Natural Gas Electric Generating Units

G. Previous Standard Exemption or Permits by Rule (PBR) Registration Number: If this standard permit application is for a change to an existing facility previously authorized under a standard exemption or PBR, list the previous standard exemption number(s), PBR registration number(s), and the associated effective date. Also attach additional information on whether the facility still meets the previous standard exemption or PBR, or whether a new registration is required and the previous standard exemption or PBR should be voided.

H. Other Facilities at this Site Authorized by Standard Exemption, PBR, or Standard Permit: To properly track how this standard permit application may relate to other authorizations or compliance with TCEQ standard permit regulations, it is important to list all standard exemption number(s), PBR registration number(s), and Standard Permit registration number(s), and the associated effective date.

I. Other Air Preconstruction Permits: If the registration is for a site that has any other minor or federal new source review (NSR) air preconstruction permits, list all permit numbers.

J. Affected Air Preconstruction Permits: If the standard permit being claimed directly affects any permitted facility, list the affected preconstruction permit numbers.

K. Federal Operating Permit (FOP) Requirements (30 Texas Administrative Code (TAC) Chapter 122 Applicability): Information and guidance on applicability of 30 TAC Chapter 122 can be accessed on our Program Applicability web page at www.tceq.texas.gov/permitting/air/titlev/pro_applicability.html.

1. If this standard permit application results in an increase in the site's potential to emit and renders the site a major source as defined in 30 TAC Chapter 122, a FOP application is required. Check the appropriate box if you are submitting a General Operating Permit (GOP) or Site Operating Permit (SOP) application or revision application. Guidance on submitting these applications is available on the Guidance for Title V Operating Permits web page at www.tceq.texas.gov/permitting/air/nav/air_titlevopperm.html.
2. Identify the type(s) of FOP(s) issued for the site by checking the appropriate box. In addition, check the appropriate box if any GOP or SOP application(s) for the site, including revision applications, are currently under review.

If you have questions about the applicability of 30 TAC Chapter 122 or impact of this Form PI-1S on your existing FOP, please contact the TCEQ APD at (512) 239-1250, and ask to speak with someone in the Operating Permits Section.

III. Fee Information

Most standard permit registrations require an application fee at the time of application submittal. All fees must be paid prior to processing any standard permit authorization. All fees must be paid through STEERS.

A. Fee Amount: Review the specific standard permit you are requesting authorization for on our Standard Air Permits web page at www.tceq.texas.gov/permitting/air/nav/standard.html to determine fee requirements. Enter the fee amount paid for this registration.

B. Payment Information: Enter voucher number from ePay, if available.

IV. Public Notice

The Texas Health and Safety Code (THSC), §382.056 and corresponding rules in 30 TAC Chapter 39 (Public Notice), or the Standard Permit being claimed, may require that you publish a notice of application, or a consolidated Notice of Application and Intent to Obtain Permit and Notice of Application and Preliminary Decision. Notices must be published in a newspaper of general circulation in the municipality where the proposed facility is or will be located. The notice must include a description of the facility and the fact that a person who may be affected by emissions from the facility may submit comments about the project, request a public hearing – as applicable to the Standard Permit being claimed, or request any other information TCEQ requires by rule. Signs must also be posted around the proposed facility location – as applicable to the Standard Permit being claimed. Additional information regarding public notice such as an overview of requirements, an applicability table, and a list of some common errors that may cause re-notice and delays in processing your application can be found at www.tceq.texas.gov/permitting/air/bilingual/how1_2_pn.html.

Review the specific standard permit you are requesting authorization for on our Standard Air Permits web page at www.tceq.texas.gov/permitting/air/nav/standard.html to determine public notice requirements.

If you are unsure whether public notice applies, we encourage you to complete this section to expedite review of your application.

A. Responsible Person: A designated representative for the applicant should be identified as the person responsible for ensuring public notice is properly published in the appropriate newspaper and signs as applicable are posted at the facility site. Provide the name, title, company, mailing address, telephone number, fax number, and email address of the responsible person. This person will be contacted directly when TCEQ is ready to authorize public notice for the application. To expedite contact, email and fax numbers are requested.

B. **Technical Contact:** The THSC, §382.056 requires that each public notice contain a technical contact to represent the applicant during the public comment period. Provide the name, title, company, mailing address, telephone number, fax number, and email address of the technical contact. This person is responsible for answering any questions from the general public regarding the application and their name and phone number will be listed in the public notice. This person may or may not be the technical contact for the permit application review.

C. **Bilingual Notice:** In some cases, 30 TAC §39.405(h) or the Standard Permit being claimed requires that you publish public notice in an alternative language newspaper. The questions on the Form PI-1S are designed to assist you in determining if a bilingual notice is required. If an elementary or middle school nearest to the facility is in a school district required by the Texas Education Code to have a bilingual program, a bilingual notice will be required. If there is no bilingual program required in the school nearest the facility, but children who would normally attend those schools are eligible to attend bilingual programs elsewhere in the school district, the bilingual notice will also be required. If it is determined that alternate language notice is required, you are responsible for ensuring that the publication in the alternate language is complete and accurate in that language.

D. **Small Business Classification and Alternate Public Notice:** If a permit is being requested by a small business, the rules allow for alternative public notification requirements if all of the following are met:

- the company employs 100 people or less, or the company generates 6 million dollars or less in gross annual receipts;
- the source is not a major stationary source under the federal operating permit requirements;
- the site does not emit 50 tons per year or more of any individual regulated air contaminant; and
- the site does not emit 75 tons per year or more of all regulated air contaminants combined.

If these requirements are met, public notice does not have to include publication of the prominent (15 square inch) newspaper notice.

V. Renewal Certification Option

Renewal projects qualify for the renewal certification option if the answer is, “No,” to each of the following questions in this section. The application for renewal certification projects does not need to include the Technical Information in Section VI. Except for renewals of a registration for the Standard Permit for Pollution Control Projects or Electric Generating Units, if a new version of the applicable standard permit has been issued since the applicant’s last action, the renewal certification option is not available.

Note: If notice is applicable and comments are received in response to the public notice, the application does not qualify for the renewal certification option.

A. Does the permitted facility emit an air contaminant on the Air Pollutant Watch List and is the permitted facility located in an area on the watch list? The air contaminants and locations can be found on the TCEQ website at www.tceq.texas.gov/toxicology/apwl/apwl.html.

B. For facilities participating in the Houston/Galveston/Brazoria area (HGB) cap and trade program for highly reactive VOCs (HRVOCs), the HRVOCs need to be speciated on the maximum allowable emission rates table (MAERT). For information on the HGB area cap and trade program for HRVOCs refer to 30 TAC §115.10. If this permit authorized emission of ethylene, propylene, 1, 3-butadiene, or butenes, these emissions must be speciated on the MAERT.

C. Does the company and/or site have an unsatisfactory compliance history? The compliance history rating for the company and the site can be found on the TCEQ website at www2.tceq.texas.gov/oce/ch/index.cfm by entering the regulated entity number or customer name.

D. Are there any applications currently under review for this standard permit registration?

E. Are planned maintenance, startup, or shutdown emissions required to be included in the standard permit registration at this time?

F. Are any of the following actions being requested at this time? For more information regarding changes to representations refer to 30 TAC §116.615.

- Are there any facilities that have been permanently shutdown that are proposed to be removed from the standard permit registration?
- The following can result in changes to the standard permit registration:
  - Changes to representations at the site
  - Emissions factors changes for any source
  - Emissions calculation methodology changes for any source
    A newer version of Compilation of Air Pollutant Emission Factors (AP-42) has been adopted with new emission factors (AP-42 can be found at www.epa.gov/air-emissions-factors-and-quantification/ap-42-compilation-air-emission-factors)
    As a result, do changes need to be made to the standard permit registration in order to remain in compliance?
- Are sources or facilities that have always been present and represented, but never identified in the standard permit registration, proposed to be included with this renewal?
- Are there any changes to the current emission rates table being proposed?

VI. Technical Information Including State and Federal Regulatory Requirements

If any of the technical information below is not included with this submittal, it may result in a deficiency and voiding of the project. Additionally, any essential information (lab analysis, NAAQS compliance demonstrations, etc.) that is needed to confirm that facilities are meeting the requirements of the standard permit, must also be included. Attachments should include detailed demonstrations of compliance with all requirements.

A. **Standard Permit Requirements:** you must demonstrate compliance with the following, or provided detailed information for why any requirement is not applicable:

- General requirements in 30 TAC §§116.610 and 116.615,
- Emission limitations[1] of 30 TAC §106.261 or 30 TAC §106.262, and
- Individual requirements of the specific standard permit.

To assist you with preparing technical information, review our Air Quality Standard Permits General Requirements Checklist (TCEQ Form 20335) available on our Forms Search web page at www.tceq.texas.gov/search_forms.html. Use of the checklist is optional; however, your review will go faster if you supply this checklist.

B. **Confidential Information:** THSC, §382.041 requires us not to disclose any information related to manufacturing processes that is marked Confidential. Mark any information related to secret or proprietary processes or methods of manufacture as "Confidential," if you do not want this information in the public file. All confidential information should be separated from the standard permit application and submitted as a separate file within the same submittal. Additional information regarding confidential information can be found at www.tceq.texas.gov/permitting/air/confidential.html.

[1] Unless specified by a particular standard permit, any project which results in a net increase of emissions of air contaminants from the project other than carbon dioxide, water, nitrogen, methane, ethane, hydrogen, oxygen, or those for which a National Ambient Air Quality Standard (NAAQS) has been established must meet the emission limitations of 30 TAC §106.261 or 30 TAC §106.262.

C. Process Flow Diagram: Provide a process flow diagram so that the permit reviewer can verify all technical information regarding the affected facility. The process flow diagram should be sufficiently descriptive so the permit reviewer can determine the raw materials to be used in the process; all major processing steps and major equipment items; individual emission points associated with each process step; the location and identification of all emission abatement devices; and the location and identification of all waste streams (including wastewater streams that may have associated air emissions). Block flow diagrams generally are not sufficient except for very simple facilities such as boilers.

Alternate material flows and changes in routing of emissions during periods of planned maintenance, startup, and shutdown (MSS) should be depicted as well as any alternate emission control devices that will be used during these periods.

D. Process Description: Provide a process description to accompany the process flow diagram that discusses each step in the process and provides a step-by-step explanation of exactly how your business operates. The description should lead the permit reviewer through the process with emphasis on where the emissions are generated, why the emissions must be generated, what air pollution controls are used (including process design features that minimize emissions), and where the emissions enter the atmosphere.

The process description must also explain how the facility or facilities will be operating when the maximum possible emissions are produced. For some source types, this will probably be the highest production rate. For other source types, the maximum emission rates may occur at partial load. When applicable, discuss cycle times, reaction times, temperatures, pressures, material flow rates, and production rates. Be specific, and do not use generalities such as a small amount, sometimes, and occasionally opened. The process description must also include how the facility is operated during periods of planned MSS and what emission reduction techniques will be used to limit emissions, changes in character of emissions, and the frequency and duration of each type of planned MSS activity.

All information in the process description is an enforceable representation.

E. Maximum Emissions Data and Calculations: Represent the maximum hourly and total annual emission rates of the project, including emission rates for planned MSS facilities and related activities. You must also provide a demonstration of expected continuous compliance with the represented emission rates.

Note: submittal of a Table 1(a) for standard permits is not required; however, your review will go faster if you supply the Table 1(a), which is available at www.tceq.texas.gov/permitting/air/forms/newsourcereview/tables/nsr_table1.html.

The permit reviewer must be able to duplicate all emission calculations to verify and confirm emissions data and rates represented in the application. Supporting calculations and the technical bases for the emission rates are required. Include all emission rates calculations and any assumptions made in determining the emission rates.

List and discuss planned MSS activities separately. Provide emission rates and supporting emissions information from planned MSS activities, frequency, and duration of all planned MSS activities, and all planned MSS activity effects on emission rates. Additionally, note all emission points unique to MSS activities. Maximum hourly emission rates, in pounds per hour, from planned MSS should be based on the maximum rates expected from the MSS activities. Annual planned MSS emission rates, in tons per year, should be based on the number of expected MSS activities during any consecutive 12-month period.

Maximum hourly emission rates, in pounds per hour, should be based on the maximum (design) production capacity of the facility. Dividing the annual emissions in tons per year by the annual hours of operation in order to determine hourly emissions in pounds per hour is often unacceptable and inaccurate since this approach typically underestimates hourly emissions.

Maximum annual emission rates, in tons per year, should reflect the operation of the facility throughout any consecutive 12-month period with consideration given to future facility growth.

Include a discussion of the hours of operation and how the hours of operation relate to emission rates on an hourly and annual basis.

If the process is a non-continuous batch operation, or there are widely varying operating scenarios, clearly identify and account for the variations in emissions in the maximum hourly and annual emission rates. Supply additional information to describe the emission variations, particularly for emissions from MSS facilities and related activities.

Include emission rate information for each air contaminant during production operations and during periods of planned MSS. Contaminants must be specifically identified. For example: methanol rather than hydrocarbons or polter/styrene resin dust and iron dust rather than dust. Provide applicable Material Safety Data Sheets (MSDS), Safety Data Sheets (SDS), Air Quality Data Sheets, or equivalent supporting documents that provide complete speciation for all mixtures that contain potential air contaminants.

If spreadsheets are used to estimate emissions, they should be formatted such that they are clear and easy to follow and include example calculations with units and the data sources for the inputs. The permit reviewer may request an electronic version of the spreadsheet to verify the emission calculations are correct.

F. **Plot Plan:** Provide a plot plan that clearly shows a scale, a north arrow, all property lines, emission points, buildings, tanks, process vessels, other process equipment, and two benchmark locations (preferably UTM coordinates). If you submit the plot plan electronically, the preferred format to use is *.dxf or *.dwg or any other computer aided drawing (CAD) format. Labeling on the plot plan listing identification of emission points, buildings, tanks, etc., must be consistent with other representations in the permit application such as emission calculations, process flow diagrams, Table 1(a), air dispersion modeling (if any), other permitting representations, and the TCEQ Emissions Inventory, if required.

Note: All emission points on the affected property must be identified, including emission points approved in other air authorizations (e.g., NSR permits, Standard Permits, PBRs, Standard Exemptions, and Title V Operating Permits). Please provide a table of all emission points that identifies the authorization type and authorization identifier, such as a permit number or rule citation under which each emission point is currently authorized.

G. **Projected Start of Construction Date, Projected Start of Operation Date, and Length of Time at the Site:** Provide the projected start of construction date, projected start of operation date, and the length of time the facility has been located at the site.

Note: Construction is broadly interpreted as anything other than site clearance or site preparation. Activities such as land clearing, soil load-bearing tests, leveling of the area, sewers and utility lines, road building, power line installation, fencing, and construction shack building are considered site clearance or preparation. Equipment may be received at a plant site and stored, provided no attempt is made to assemble the equipment or connect it to any electrical, plumbing, or other utility system. All work, such as excavation, form erection, or foundations upon which facilities will rest is considered construction. Submit any questions regarding the definition of start of construction to airperm@tceq.texas.gov with copies to the appropriate TCEQ regional office and any local air pollution control program(s) having jurisdiction. Each request for clarification must be in writing with sufficient detail to identify the specific activity in question, and the agency response to this request must be in writing for the authorization to be valid. Additional information can be found at www.tceq.texas.gov/permitting/air/newsourcereview/before.html.

VII. Delinquent Fees and Penalties

We will not process your application until all delinquent fees and applicable penalties owed to TCEQ or the Office of the Attorney General on behalf of TCEQ are paid in accordance with the Delinquent Fee and Penalty Protocol. More information regarding delinquent fee and penalties can be found at www.tceq.texas.gov/agency/financial/fees/delin/index.html.

VIII. Signature Requirements

The Company Official identified in Section I.B. must sign all copies of the application. The applicant's consultant cannot sign the application. If this project has a capital cost of more than $2,000,000.00, this application must be submitted under seal of a Registered Texas Professional Engineer (P.E.) or the appropriate exemption must be claimed pursuant to the Texas Engineering Practice Act.

The Company Official's signature confirms knowledge of the facts included in the application, and affirms the facts contained in the application are true and correct. The signature also signifies awareness that intentionally or knowingly making false statements or representations in the application is a criminal offense subject to criminal penalties.

Note: Signatures must be original and in ink. Signatures may not be reproduced by photocopy, fax, or other means. The original signature must be received before any permit is issued.

Applicants may check application receipt and status using the New Source Review Air Permits web page at www2.tceq.texas.gov/airperm/index.cfm?fuseaction=airpermits.start. For questions relating to the initial receipt and administrative review of the application, please contact the Air Permits Initial Review Team at (512) 239-1250.

IX. Copies of the Registration

The Form PI-1S application must be submitted through ePermits. No additional copies need to be sent to the Regional Office or local Air Pollution Control Program(s). The link to ePermits can be found here: www3.tceq.texas.gov/steers/.

A copy must also be maintained on-site. For sites that normally operate unattended, a copy must be maintained at an office within Texas that has operational control of the site.

Also, all *subsequent* correspondence should be copied to the TCEQ regional office and local air pollution control program(s), as appropriate. Do not attach a copy of Form PI-1S to subsequent correspondence unless specifically requested, as this may cause another registration file to be created. Indicate the assigned TCEQ registration number, TCEQ regulated entity number, and permit reviewer, if known, on all subsequent correspondence.

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Registrations for Air Standard Permit
(Page 1)
Texas Commission on Environmental Quality

I.	**Registrant Information**
A.	Company or Other Legal Customer Name:
	RR Houston Memorials, LLC
B.	Company Official Contact Information:
	X Mr.
	☐ Mrs.
	☐ Ms.
	☐ Other:_____
Name: Andrew Snelgrove	
Title: Owner	
Mailing Address: 1026 Vaulted Oak Street	
City: Houston	
State: TX	
ZIP Code: 77008	
Telephone Number: 949-244-7661	
Fax Number:	
Email Address: andysnelgrove@yahoo.com	
All permit correspondence will be sent via email.	
C.	Technical Contact Information
	X Mr.
	☐ Mrs.
	☐ Ms.
	☐ Other:_____
Name: Taylor Burwell	
Title: Quality & Operations Lead	
Company Name: American Crematory Equipment Co	
Mailing Address: 6601 Darin Way	
City: Cypress	
State: CA	
ZIP Code: 90630	

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I.	**Registrant Information *(continued)***
C.	Technical Contact Information *(continued)*
Telephone Number: 562-755-7346	
Fax Number:	
Email Address: taylor@americancrematory.com	
II.	**Facility and Site Information**
A.	Name and Type of Facility
Facility Name: Resting Rainbow - Houston	
Type of Facility: X Permanent ☐ Temporary	
For portable units, please provide the serial number of the equipment being authorized below. Serial No(s):	
B.	Facility Location Information
Street Address: 330 T C Jester Blvd.	
If there is no street address, provide written driving directions to the site and provide the closest city or town, county, and ZIP code for the site (attach description if additional space is needed).	
City: Houston	
County: Harris	
ZIP Code: 77007	
C.	Core Data Form (**required** for Standard Permits 6006, 6007, and 6013).
Is the Core Data Form (TCEQ Form 10400) attached? ☐ Yes ☐ No	
Customer Reference Number (CN):	
Regulated Entity Number (RN):	
D.	TCEQ Account Identification Number (if known):

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II. Facility and Site Information *(continued)*
E. Type of Action X Initial Application ☐ Change to Registration ☐ Renewal ☐ Renewal Certification
For Change to Registration, Renewal, or Renewal Certification actions provide the following:
Registration Number:
Expiration Date:
F. Standard Permit Claimed:
G. Previous Standard Exemption or PBR Registration Number:
Is this authorization for a change to an existing facility previously authorized under a standard exemption or PBR? ☐ Yes X No
If "Yes," enter previous standard exemption number(s) and PBR registration number(s) and associated effective date in the spaces provided below.
Standard Exemption Number(s):
PBR Registration Number(s):
H. Other Facilities at this Site Authorized by Standard Exemption, PBR, or Standard Permit
Are there any other facilities at this site that are authorized by an Air Standard Exemption, PBR, or Standard Permit? ☐ Yes X No
If "Yes," enter standard exemption number(s), PBR registration number(s), Standard Permit Registration Number(s), and associated effective date in the spaces provided below.
Standard Exemption Number(s):
PBR Registration Number(s):
Standard Permit Registration Number(s):

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(Page 4)
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II. Facility and Site Information *(continued)*
I. Other Air Preconstruction Permits
Are there any other air preconstruction permits at this site? ☐ Yes X No
If "Yes," enter permit number(s) in the spaces provided below.
J. Affected Air Preconstruction Permits
Does the standard permit directly affect any permitted facility? ☐ Yes X No
If "Yes," enter permit number(s) in the spaces provided below.
K. Federal Operating Permit (FOP) Requirements
Is this facility located at a site that is required to obtain a FOP pursuant to 30 TAC Chapter 122? ☐ Yes X No ☐ To Be Determined
Check the requirements of 30 TAC Chapter 122 that will be triggered if this standard permit is approved (*check all that apply).* ☐ Initial Application for a FOP ☐ Significant Revision for a SOP X Minor Revision for a SOP ☐ Operational Flexibility/Off Permit Notification for a SOP ☐ Revision for a GOP ☐ To be Determined ☐ None
Identify the type(s) of FOP issued and/or FOP application(s) submitted/pending for the site. *(check all that apply)* X SOP ☐ SOP application/revision (submitted or under APD review) ☐ GOP ☐ GOP application/revision (submitted or under APD review) ☐ N/A

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III.	**Fee Information** ***(go to www.tceq.texas.gov/epay to pay online)***
A.	Fee Amount: $900
B.	Voucher number from ePay: 781750
IV.	**Public Notice** ***(if applicable)***
A.	Responsible Person ☐ Mr. ☐ Mrs. ☐ Ms. ☐ Other:_____
Name:	
Title:	
Company:	
Mailing Address:	
City:	
State:	
ZIP Code:	
Telephone No.:	
Fax No.:	
Email Address:	
B.	Technical Contact ☐ Mr. ☐ Mrs. ☐ Ms. ☐ Other:_____
Name:	
Title:	
Company:	
Mailing Address:	
City:	
State:	
ZIP Code:	

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IV. Public Notice *(if applicable)*
B. Technical Contact
Telephone Number:
Fax Number:
Email Address:
C. Bilingual Notice
Is a bilingual program required by the Texas Education Code in the School District? ☐ Yes ☐ No
Are the children who attend either the elementary school or the middle school closest to your facility eligible to be enrolled in a bilingual program provided by the district? ☐ Yes ☐ No
If "Yes," list which language(s) are required by the bilingual program below? Language(s):_____ Language(s):_____
D. Small Business Classification and Alternate Public Notice
Does this company (including parent companies and subsidiary companies) have fewer than 100 employees or less than $6 million in annual gross receipts? X Yes ☐ No
Is the site a major source under 30 TAC Chapter 122, Federal Operating Permit Program? ☐ Yes X No
Are the site emissions of any individual regulated air contaminant equal to or greater than 50 tpy? ☐ Yes X No
Are the site emissions of all regulated air contaminant combined equal to or greater than 75 tpy? ☐ Yes X No

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V.	Renewal Certification Option
A.	Does the permitted facility emit an air contaminant on the Air Pollutant Watch List, and is the permitted facility located in an area on the watch list? ☐ Yes X No
B.	For facilities participating in the Houston/Galveston/Brazoria area (HGB) cap and trade program for highly reactive VOCs (HRVOCs), do the HRVOCs need to be speciated on the maximum allowable emission rates table (MAERT)? ☐ Yes X No
C.	Does the company and/or site have an unsatisfactory compliance history? ☐ Yes X No
D.	Are there any applications currently under review for this standard permit registration? ☐ Yes X No
E.	Are scheduled maintenance, startup, or shutdown emissions required to be included in the standard permit registration at this time? ☐ Yes X No
F.	Are any of the following actions being requested at the time of renewal: ☐ Yes X No
1.	Are there any facilities that have been permanently shut down that are proposed to be removed from the standard permit registration? ☐ Yes X No
2.	Do changes need to be made to the standard permit registration in order to remain in compliance? ☐ Yes X No
3.	Are sources or facilities that have always been present and represented, but never identified in the standard permit registration, proposed to be included with this renewal? ☐ Yes X No
4.	Are there any changes to the current emission rates table being proposed? ☐ Yes X No
*Note: If answers to all of the questions in Section V. Renewal Certification Option are "No," use the certification option and skip to Section VII. of this form. If the answers to any of the questions in Section V. Renewal Certification Option are "Yes," the certification option **cannot** be used.*	
*If notice is applicable and comments are received in response to the public notice, the application does not qualify for the renewal certification option.	

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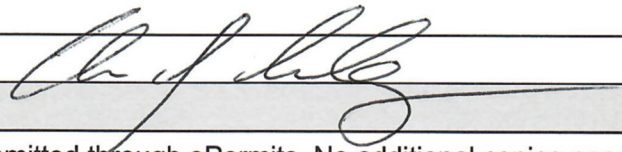
VI. Technical Information Including State and Federal Regulatory Requirements
Place a check next to the appropriate box to indicate what you have included in your submittal. *Note: Any technical or essential information needed to confirm that facilities are meeting the requirements of the standard permit must be provided. Not providing key information could result in an automatic deficiency and voiding of the project*.
A. Standard Permit requirements (Checklists are optional; however, your review will go faster if you provide applicable checklists.)
Did you demonstrate that the general requirements in 30 TAC§§116.610 and 116.615 are met? ☐ Yes ☐ No
Did you demonstrate that the individual requirements of the specific standard permit are met? ☐ Yes ☐ No
B. Confidential Information (All pages properly marked “CONFIDENTIAL”). ☐ Yes ☐ No
C. Process Flow Diagram. ☐ Yes ☐ No
D. Process Description. ☐ Yes ☐ No
E. Maximum Emissions Data and Calculations. ☐ Yes ☐ No
F. Plot Plan. ☐ Yes ☐ No
G. Projected Start of Construction Date, Start of Operation Date, and Length of Time at Site: ☐ Yes ☐ No
Projected Start of Construction (provide date):
Projected Start of Operation (provide date):
Length of Time at the Site:

VII. Delinquent Fees and Penalties
This form **will not be processed** until all delinquent fees and/or penalties owed to TCEQ or the Office of the Attorney General on behalf of TCEQ are paid in accordance with the Delinquent Fee and Penalty Protocol. For more information regarding Delinquent Fees and Penalties, go to the TCEQ website at: www.tceq.texas.gov/agency/financial/fees/delin/index.html
VIII. Signature Requirements
The signature below confirms that I have knowledge of the facts included in this application and that these facts are true and correct to the best of my knowledge and belief. I further state that to the best of my knowledge and belief, the project for which application is made will not in any way violate any provision of the Texas Water Code (TWC), Chapter 7; the Texas Health and Safety Code (THSC), Chapter 382, the Texas Clean Air Act (TCAA) the air quality rules of the Texas Commission on Environmental Quality; or any local governmental ordinance or resolution enacted pursuant to the TCAA. I further state that I understand my signature indicates that this application meets all applicable nonattainment, prevention of significant deterioration, or major source of hazardous air pollutant permitting requirements. The signature further signifies awareness that intentionally or knowingly making or causing to be made false material statements or representations in the application is a criminal offense subject to criminal penalties.
Name (printed): Andrew J Snelgrove
Signature (original signature required): 
IX. Copies of the Registration
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